

AL-SHERMAN LTD

P.O.BOX 87074
MOMBASA

PROPOSED SALT WORKS AT LAND PERCEL L.R. No. 13536,
MARERENI, KILIFI COUNTY

ENVIRONMENTAL IMPACT ASSESSMENT STUDY

TERMS OF REFERENCE

Compiled by:-

SIGTUNA CONSULTANCY LIMITED

Registered and Licensed EIA/EA Firm of Experts Reg. No.9582

P.O. BOX 569-80100

MOMBASA

E-mail: sigtunaconsultancy@yahoo.com

Tel: 254 0722 493 772



AL-SHERMAN LTD

**P.O.BOX 87074
MOMBASA**

**PROPOSED SALT WORKS AT LAND PERCEL L.R. No. 13536, MARERENI,
KILIFI COUNTY**

ENVIRONMENTAL IMPACT ASSESSMENT STUDY

TERMS OF REFERENCE

Compiled by:-

SIGTUNA CONSULTANCY LIMITED

Registered and Licensed EIA/EA Firm of Experts Reg. No.9582

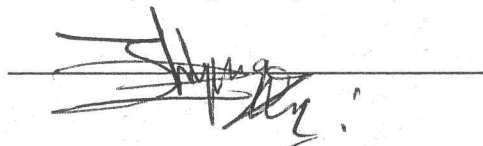
P.O. BOX 569-80100

MOMBASA

E-mail: sigtunaconsultancy@yahoo.com

Tel: +254 (0)722 493 772

Signed by:



Philip. Manyi Omenge

EIA/EA Lead Expert Reg. No. 1559

Team Leader

Sigtuna Consultancy Limited EIA/EA Firm of Experts

AL-SHERMAN LTD

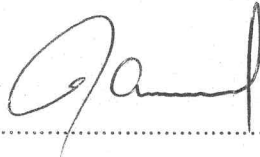
**P.O.BOX 87074
MOMBASA**

**PROPOSED SALT WORKS AT LAND PERCEL L.R. No. 13536, MARERENI,
KILIFI COUNTY**

ENVIRONMENTAL IMPACT ASSESSMENT STUDY

TERMS OF REFERENCE

Signed and submitted by the Proponent



.....
Mohamed Islam ALI
Director
AL- SHERMAN LTD

TABLE OF CONTENT

1. BACKGROUND	1
1.1 Introduction	1
1.2 Project definition	1
1.3 Location	1
1.4 Project Proponent	2
1.4 Project Objective and Scope	2
1.6 Purpose of TOR	2
2. EIA PROCES TO BE FOLLOWED	3
2.1 Background	3
2.2 Team of Experts	3
2.3 Detailed EIA study	8
2.4 Preparation of the EIA study report	9
2.5 consultation and public participation	10
3.0 POLICY AND LEGAL FRAMEWORK	11
4. POTENTIAL ENVIRONMENTAL IMPACTS AND PROPOSED MITIGATION MEASURES	13
4. 1 Potential positive impacts	13
4.2 Potential negative impacts	13
4.3 Mitigation measures	13
4.4 Environmental management and monitoring plan	13
5.0 SCHEDULES OF ACTIVITIES	14
APPENDIX	15

LIST OF TABLES

Table 1: GPS Coordinates that define the area of the proposed salt works	1
Table 2: Proposed Team of Experts who will undertake the EIA Study	5

1. BACKGROUND

1.1 Introduction

This Terms of Reference (TOR) document is for an Environmental Impact Assessment Study Report for proposed salt works to be developed by Al-Sherman Limited. Legal Notice No. 150 of 19th August 2016, that amended the second schedule of the Environmental Management and Coordination Act, 1999 lists Salt firms under high risk projects in section 6 (b) of the second schedule of the Act and hence require that proposed salt firms to submit an environmental impact assessment study report under section 58 (2) of the Environmental Management and Coordination Act, 1999. Regulation 11 (1) of the Environmental (Impact Assessment and Audit) Regulations, 2003 require that an environmental impact assessment study be conducted in accordance with the terms of reference developed during the scoping exercise by the proponent and approved by the Authority.

1.2 Project definition

The proposed project will be to construct a salt works that utilizes solar technology to produce salt from seawater. The components of the salt works will include salt pond, saltwater pumps, salt washing area raw (salt washery), and an office block among others.

1.3 Location

The proposed project will be located in Kilifi County, Magarini Sub-County, Fundi Issa Location, Marereni Sub-Location, Adu Ward at Musumarini area on land L.R.No. 13536, appendix 1 gives land documents. The area of land L.R.No. 13536 as indicated in the land document is 1,021.9 hectares. The proposed salt works will occupy approximately 753.8 hectares. Table 1 tabulates the coordinates that define the area of the proposed salt works.

Table 1: GPS Coordinates that define the area of the proposed salt works

Description	Coordinates
Old cut-line West on road crossing	Latitude: 02 ^o 47.440'S, Longitude: 40 ^o 09.140'E
Pump station No.3	Latitude: 02 ^o 46.385'S, Longitude: 40 ^o 09.557'E
North limit dyke junction pump No.3	Latitude: 02 ^o 46.385'S, Longitude: 40 ^o 09.557'E
Pump station No.1 Sea intake	Latitude: 02 ^o 46.450'S, Longitude: 40 ^o 09.960'E
Junction EX-Dyke (Pump No. 3)	Latitude: 02 ^o 46.710'S, Longitude: 40 ^o 09.590'E

Description	Coordinates
Junction EX-Dyke Near service area	Latitude: 02 ⁰ 47.200'S, Longitude: 40 ⁰ 09.600'E
End Offset dyke (line of crystallizers)	Latitude: 02 ⁰ 47.490'S, Longitude: 40 ⁰ 09.660'E
Line of crystallizer junction	Latitude: 02 ⁰ 47.490'S, Longitude: 40 ⁰ 09.550'E
Junction 'X'	Latitude: 02 ⁰ 47.670'S, Longitude: 40 ⁰ 09.594'E
T-Junction Perimeter	Latitude: 02 ⁰ 47.839'S, Longitude: 40 ⁰ 09.598'E
S.E Corner on perimeter dyke	Latitude: 02 ⁰ 47.730'S, Longitude: 40 ⁰ 10.050'E
Junction at Mid Crystallizer	Latitude: 02 ⁰ 47.620'S, Longitude: 40 ⁰ 09.400'E
T-Junction Perimeter	Latitude: 02 ⁰ 47.840'S, Longitude: 40 ⁰ 09.410'E
N.E Corner Crystallizers	Latitude: 02 ⁰ 47.490'S, Longitude: 40 ⁰ 09.400'E
Site Office (Containers)	Latitude: 02 ⁰ 47.383'S, Longitude: 40 ⁰ 09.385'E

1.4 Project Proponent

Al-Sherman Limited, a private company incorporated with limited liabilities in the Republic of Kenya is the project proponent. The company holds a certificate of incorporation number No. C 30942 date eighteenth day of December one thousand nine hundred and eighty five and personal identification number certificate P000632683Z dated 05/10/2017. Appendix 2 is copy of the certificate of incorporation and copy of personal identification number certificate

1.4 Project Objective and Scope

The objective of the proposed project is to construct a salt works that will utilize seawater and solar radiation to produce salt using solar technology. The scope of the proposed salt works will be to construction of salt ponds (evaporator ponds, serving ponds and crystallizer ponds), pump stations, dykes, service facilities, office block and associated support facilities.

1.6 Purpose of TOR

The purpose of this TOR is:-

- i. To give an outline of the project, project objectives purpose, legislation and institutional framework affecting the project.
- ii. To list the team of Experts who will carry out the EIA study and prepare EIA study report.
- iii. Outline the EIA process to be followed, environmental impacts, mitigation measure environmental management and monitoring.
- iv. Give an indication of timeframe.

2. EIA PROCES TO BE FOLLOWED

2.1 Background

Environmental Impact Assessment (EIA) refers to a critical examination of the effects of a proposed project on the environment before its implementation. Impacts describe any negative and positive environmental influence caused by a project. EIA is applied on the basic principle that the effect of a project on the environment needs to be established before it is implemented. The basic assumption is if a proper EIA is carried out then, the Sustainability of the environment can be properly managed during the projects implementation, commissioning, operation and decommissioning. A project is defined as a specific set of human activities in a particular location and time frame and intended to achieve an objective(s). The term environment is used in its broadest possible sense to embrace not only physical and biological systems but also socio-economic systems and their inter-relationships. The EIA process will take into account operational, social, cultural, economic, legal and administrative considerations. The process will include the following:

- Collection of baseline data and information
- Description of affected environments
- Participation of all stakeholders
- Identification and assessment of potential impacts (both negative and positive) of the project to the environment
- Proposal of possible mitigation measures to curb any potential negative impacts, while outlining interventions to enhance the positive impacts
- Development of an appropriate Environmental Management Plan (EMP).

2 Team of Experts

The Sigtuna Consultancy Limited EIA/EA Firm of Experts Team who will undertake the environmental impact assessment study are Philip Manyi Omenge EIA/EA Lead Expert, Natural Resources Management/Ecology, Rural Development, Conflict Management and Gender Mainstreaming Specialist; James Morumbasi Mong'oni a registered EIA/EA Lead Expert, a Mechanical Engineer, a Safety Practitioner, Safety Trainer, and Inspector of pressure vessels and lifting equipment; Hezekiah Adala, EIA/EA Lead Expert, Mechanical Engineer, Safety Advisor; Beatrice Minoos Nguti EIA/EA Associate Expert, Physical Geographer/ Socio-economic Expert and Jonathana Katana Yeri, EIA/EA Associate Expert, Soil, Water and Environmental Engineer

3 is copy of registration certificates and practicing licenses of the firm of experts while

4 is individual curriculum vitae of the team of experts.

Table 2: Proposed Team of Experts who will undertake the EIA Study

Name	Profession / Designation	Educational Training
Philip Manyi Omenge (BSc.; MSc., PhD - ongoing)	<ul style="list-style-type: none"> - Team Leader - EIA/EA Lead Expert - Natural Resources Management Specialist - Plant Ecology - Rural Development Specialist - Resource Based Conflict Management Specialist - Gender Mainstreaming Specialist 	<ul style="list-style-type: none"> - PhD (ongoing) in Natural Resources and Peace, Egerton University, Njoro. - Thesis Research Topic: <i>Evaluation of the Effectiveness of Environmental and Social Impact Assessment (ESIA) In Conflict Identification and Prevention for Renewable Energy Projects in Kenya.</i> - MSc. With a specialization in Rural Development Studies, The Swedish University of Agricultural Sciences (SLU), Uppsala, Sweden. - Dissertation: <i>The Role of Butterfly Farming in Forest Conservation and Community Development in Kenya.</i> - BSc. (Hons), Natural Resources Management, Egerton University - Post graduate Certificate: Environmental Audit; KNCP, Nairobi - Post Graduate Certificate: Gender in Rural Entrepreneurship, the Swedish University of Agricultural Sciences and University of Dar Es Salam Business School.

Name	Profession / Designation	Educational Training
James Morumbasi Mong'oni, MSc.; MBA, BSc. Eng,	<ul style="list-style-type: none"> - Team Member - EIA/EA Lead Expert - Occupational Safety Health (OSH) Practitioner - Trainer in Occupational Safety 	<ul style="list-style-type: none"> - Postgraduate Certificate : ' Science and Leadership for Transforming Institutions' The Research School for Society, Landscape and Land Use at the Swedish University of Agricultural Sciences, Sweden and the University of Dar Es Salam, Tanzania - Post Graduate Certificate: Proposal Writing and Research Writing. Author AID INASP. - Post Graduate Certificate: Africa Energy Landscape: Prospects, Status and Challenges. ISNAD-Africa, Clean Energy Solution Centre - Post Graduate Certificate: Environmental Sustainability in Africa, ISNAD-Africa, Clean Energy Solution Centre - Post Graduate Certificate: Essential Skills for Effective Mentoring Relationship. ISNAD- Africa, Clean Energy Solution Centre. - MSc. Occupational Safety and Health, - Master Business Administration (MBA), - Bachelor of Science in Mechanical Engineering, BSc(Mech Eng) - Postgraduate Certificate in Occupational safety and Health Risk Assessment

Name	Profession / Designation	Educational Training
	<ul style="list-style-type: none"> - Fire safety Auditor - Plant Inspector (Pressure Vessels and Lifting Appliances - Mechanical Engineer 	<ul style="list-style-type: none"> - Postgraduate Certificate in Occupational Safety and Health
Hezekiah Adala; BSc. Eng	<ul style="list-style-type: none"> - Team Member - EIA/EA Lead Expert - Occupational Safety Health (OSH) Practitioner - Mechanical Engineer 	<ul style="list-style-type: none"> - Postgraduate Certificate in Environmental Management (Coventry Management Training Centre Warwickshire, England) - Postgraduate Certificate in Occupational Safety and Health - Bachelor of Science in Mechanical Engineering (University of Nairobi)
Beatrice Minoo Nguti (BA)	<ul style="list-style-type: none"> - Team Member - EIA/EA Associate Expert - Geographer - Social Entrepreneurial trainer 	<ul style="list-style-type: none"> - BA (Hons) Geography & History - Cert, in Environmental Impact Assessment
Jomathan Katana Yeri (BSc. Eng.)	<ul style="list-style-type: none"> - Team Member - EIA/EA Associate - Soil, Water & Environmental Engineer 	<ul style="list-style-type: none"> - BSc. Soil, Water & Environmental Engineering, - Certificate in Office Automation

Detailed EIA study.

The EIA study will be carried out as provided for in the Environmental (Impact Assessment and Audit) Regulations, Legal Notice 101 of 2003. The study will investigate the following issues among others as outlined in the second schedule of the Environmental (Impact Assessment and Audit) Regulations, 2003.

Ecological Considerations

Biological diversity including

Effect of proposal on number, diversity, breeding habits, etc. of wild Animals and vegetation;
Gene pool of domesticated plants and animals e.g. monoculture as opposed to wild types.

Sustainable use including

Effect of proposal on soil fertility

Breeding populations of fish, game or wild animals

Natural regeneration of woodland and sustainable yield

Wetland resource degrading or wise use of wetlands

Ecosystem maintenance including

Effect of proposal on food chains

Nutrient cycles

Aquifer recharge, water run-off rates

Real extent of habitats

Sensitive ecosystems

Social considerations including

Economic impacts

Social cohesion or disruption

Effect on human health

Migration or emigration

Communication - roads opened up, closed, rerouted

Effects on culture and objects of culture value

Landscape

Roads opened up or closed

Visual impacts (features, removal of vegetation, etc.)

Compatibility with surrounding area

(d) Amenity opened up or closed, e.g. recreation possibilities.

4. Land uses

(a) Effects of proposal on current land uses and land use potentials in the project area.

(b) Possibility of multiple uses

(c) Effects of proposal on surrounding land uses and land use potentials.

5. Water:

Important aspects to consider are the effects of the proposal on:

(a) Water sources (quantity and quality) -

(i) Rivers;

(ii) Springs;

(iii) Lakes (natural and man-made);

(iv) Underground water;

(v) Oceans;

(b) Drainage patterns / drainage systems.

5. Traffic management

6. Dust management

7. Grievance redress mechanisms

8. Sources of production materials

— climate??

2.4 Preparation of the EIA study report

EIA study report will include the following:

⇒ Location of the project.

⇒ The objectives of the project.

⇒ Baseline information such as descriptions of the natural, social and operational environments, the current policy and legal framework and the administrative arrangement under which the project will operate.

⇒ The technology, procedures and processes to be used in implementation of the project.

⇒ Alternative technologies and processes available and reasons for preferring the chosen technology and processes.

⇒ The wastes to be generated by the project and ways of handling it.

⇒ A description of potentially affected environments.

- > The environmental effects of the project: including the social and cultural effects and the direct, indirect, cumulative, irreversible, short term and long term effects anticipated.
- > An EMP proposing measures for eliminating, minimizing or mitigating adverse impacts on the environment, while enhancing the positive effects; including the cost, time frame, and responsibility to implement these measures.
- > Provision of an action plan for the prevention and management of foreseeable accidents and hazardous activities.
- Measures to prevent health hazards and to ensure security in the working environment for the employees and users of the facility, and for management of emergencies.
- An economic and social analysis of the project.
- An identification of gaps in knowledge and uncertainties which were encountered in compiling the information.
- A non-technical summary outlining the key findings, conclusions and recommendations of the study.

consultation and public participation

During the EIA study, the extensive consultations will be done to ensure that all stakeholders are informed of the proposed project and are involved in it. Stakeholder consultation will be carried out as provided for in regulation 17 of the Environmental (Impact Assessment and Audit) Regulations, 2003. They will include but not limited to:-

- ✓ Stakeholder consultative meetings; through Baraza, three public barazas will be held
- ✓ Questionnaire surveys
- ✓ Focused group discussions) ??
- ✓ Site visits and observations

The objective of the stakeholder participation will be to:

1. Establish common stakeholder needs and ensure that the project continues to satisfy these needs or even enhance the needs.

2. Provide background information which will form an important part of baseline data.

3. Create awareness amongst the stakeholders and sensitize them on environmental issues related to the project.

3.0 POLICY AND LEGAL FRAMEWORK

Review of policy and legal framework for the proposed project will focus on relevant national legislations and international conventions and treaties which Kenya is a signatory to. National legislations that will be reviewed will include:-

- The Constitution of Kenya 2010
- Environmental Management and Co-ordination Act (EMCA) 1999
- The Mining Act, 2016
- The Environmental Management and Coordination (Water Quality) Regulations, 2006
- The Environmental Management and Coordination (Noise and Excessive Vibration Pollution) (Control) Regulations 2009;
- The Environmental Management and Coordination (Air Quality) Regulations, 2014;
- Physical planning Act
- The Public Health act
- The Environmental Management and Coordination (Water Quality) Regulations, 2006;
- The Environmental Management and Coordination (Waste Management) Regulations, 2006
- The Employment Act 2007
- The labour Institutions Act 2007
- The Work Injuries Benefits Act 2007
- The Occupational Safety and Health Act 2007
- The Environmental Management and Coordination (Noise and Excessive Vibration Pollution) (Control) Regulations 2009
- The Lands Act 2012
- The Water Act 2016
- The Energy Act 2006
- National Construction Authority Act No. 41 of 2011
- The Environmental (Impact Assessment and Audit) Regulations 2003
- The Wildlife Conservation and Management Act, 2013
- The Environmental Management and Co-ordination (Wetlands, River Banks, Lake Shores and Sea Shore Management) Regulation, 2009

The Forest Conservation and management Act 2016

International Treaties and Conventions Binding to Kenya and relevant to the proposed project
shall be reviewed include:

Agenda 21

The World Commission on Environmental and Development (The Brundtland Commission) – signed/ratified 1987

Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES) – ratified 1978

Convention on Biological Diversity (CBD) – signed/ratified 1992

United Nations Framework Convention on Climate Change (UNFCCC) – signed/ratified 1994

United Nations Framework Convention on Climate Change (UNFCCC) – Kyoto Protocol signed/ratified (1997)

African Convention on the Conservation of Nature and Natural Resources

International Union for Conservation of Nature

4. POTENTIAL ENVIRONMENTAL IMPACTS AND PROPOSED MITIGATION MEASURES

The EIA study report that will be prepared will discuss in depth potential positive and negative impacts of the proposed salt works and propose mitigation measures for potential adverse impacts.

4.1 Potential positive impacts

Potential positive impacts will be considered include economic impacts, livelihoods improvement, social impacts, and technological transfers. Measures to enhance positive impacts will be proposed

4.2 Potential negative impacts

Potential negative impacts of the proposed salt works on the physical, biophysical, social and economic environment will be identified, assessed and analyzed. The type, scale and location of the proposed salt works will guide the scope of the impact identification. The direct and indirect, short term, long term project-related impacts on the environment and local community and residual impacts will be considered during the assessment of impacts.

4.3 Mitigation measures

Appropriate mitigation measures for all the identified potential negative impacts will be suggested complete with action plans detailing responsible actors, timeframe and budget.

4.4 Environmental management and monitoring plan

An environmental management and monitoring plan (EMMP) for the proposed salt works will be developed. The EMMP will include the following;

- ✓ Maximization of identified potential positive impacts.
- ✓ Mitigation of identified potential negative environmental and social impacts
- ✓ Monitoring for compliance with the provisions of relevant national legislations.
- ✓ Training, capacity development, implementation schedule and related costs.
- ✓ Institutional arrangements for safeguard implementation and reporting.
- ✓ Grievances redress mechanism.

APPENDIX

Appendix 1: Land documentation

Appendix 2 Company registration documents

Appendix 3 Registration certificates and practicing license of the firm of Experts

Appendix 4 Curriculum vitae of EIA team of Experts

1

Appendix 1
Land documents



REPUBLIC OF KENYA

THE REGISTRATION OF TITLES ACT
(Chapter 281)

GRANT: NUMBER CR. 17511

ANNUAL RENT: Shs. 22,000/= (RENTABLE)

TERM: 45 YEARS FROM: 1/1/1986

18/1/86

17511
1,000/= (RENTABLE)
1/1/1986

KNOW ALL MEN BY THESE PRESENTS that THE PRESIDENT OF THE REPUBLIC OF KENYA Hereby
GRANTS Unto AL SHERMAN LIMITED a limited liability company having its registered
office at MOMBASA (Post Office Box Number 87226).

(hereinafter called "the Grantee") ALL that piece of land situate in North of Malindi Municipality in the Kilifi
District containing by measurement one thousand and twenty one decimal nine (1021.9)
hectares or thereabouts that is to say L.R. No. 13536

which said piece of land with the dimensions abutments and boundaries thereof is delineated on the plan annexed
hereto and more particularly on Land Survey Plan Number 125779 deposited in the Survey Records Office
at Nairobi

TO HOLD
for the term of forty five (45) years from the
first day of January

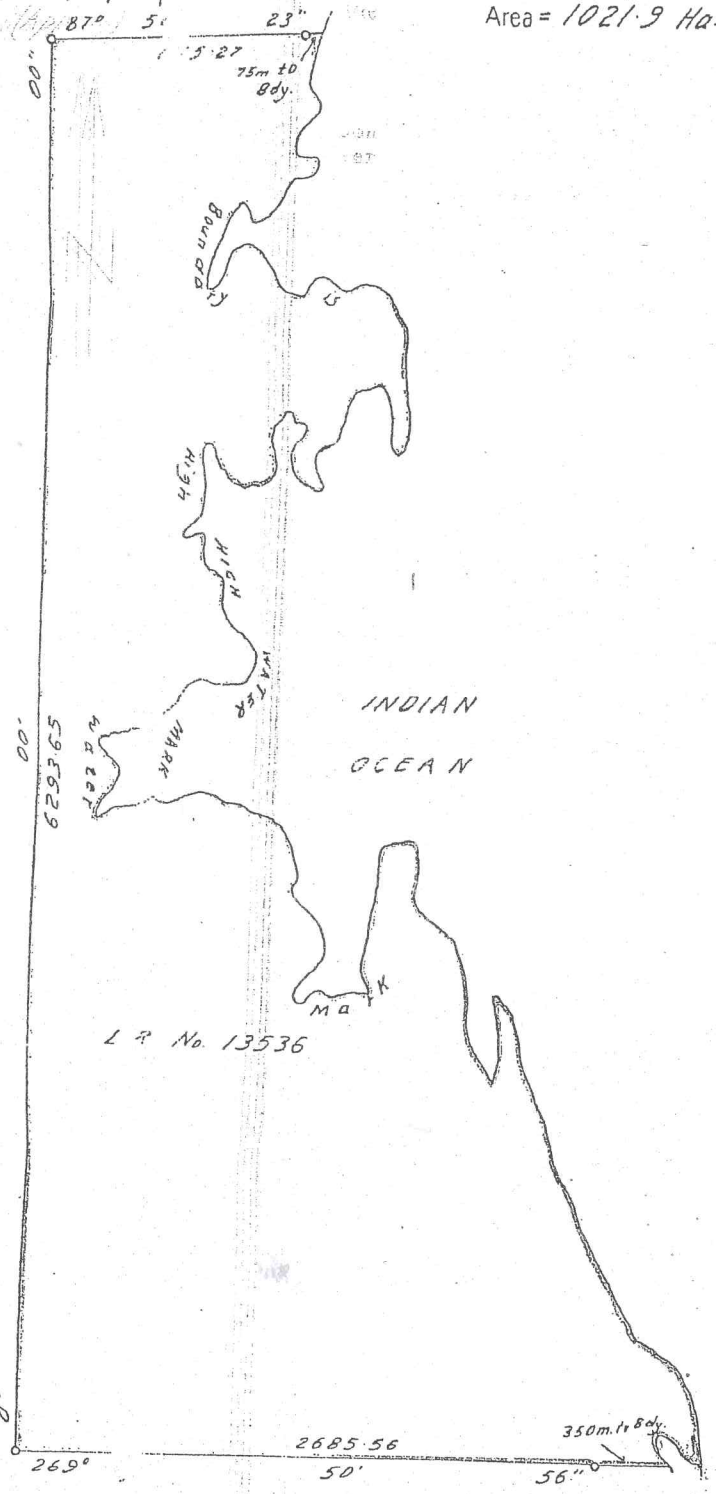
SUBJECT to One thousand nine hundred and
each year of the annual rent of shillings twenty two thousand (Shs. 22,000/=)
(a) the payment in advance on the first day of January in
(b) the provisions of the Government Lands Act (Chapter 280) and (c) the following Special Conditions (namely):-

DISTRICT OF KILIFI
Locality N. of Mairindi Municipality
Reference Map South A. 37 2
Q. III. a

Land Reference No 13536
(Orig No. _____)
Sub-division No. _____ (Orig No. _____)
of Section No. _____

Area = 1021.9 Ha. (Approx.)

Bearings	Distances
°	Metres
00°	6225.65
23°	75m to 80y
269°	2685.56
56°	350m to 80y



[Signature]
for Director of Surveys

Nairobi 18 February 1986.

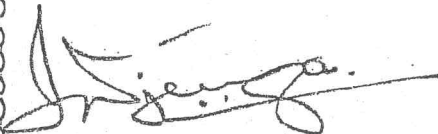
Scale 1 in 25,000

Lansan

grantee closes his operation of extraction of salt from the land hereby
d or is not successful in his operation of extraction of Salt from the land
granted the said land will automatically revert to the Government without
t of compensation. The grantee will be at liberty to remove his installations
her improvements from the land three months before the closing date.

antee shall pay to the Commissioner of Lands royalty on salt extracted at the
f Shs. 2/= per metric ton in excess of 12,000 tons per year. A Minimum of
2,000/= per year royalty shall be paid to the Commissioner of Lands on or
30th May in each year. The fixed rent of Shs. 22,000/= shall be paid
Commissioner of Lands per year during construction period. The Grantee
submit to the Commissioner of Lands an audited certificate of salt production
information and verification of royalty payable at the end of each calendar
nd of each calendar

INNESS WHEREOF I, JAMES RAYMOND NJENGA)
ommissioner of Lands have by order of
resident hereunto set my hands this
13th day of March
ousand nine hundred and eighty six
presence of:-



REGISTRAR OF TITLES

REGISTRATION OF TITLES
CR. 17511/1
14th MARCH 1986
3:03 p.m.
Registrar of Titles

0346 BR. NMR-1-859

19/2/88



KNOW ALL MEN BY THESE PRESENTS THAT at the request of AL SHERMAN LIMITED the within-named Grantee the PRESIDENT OF THE REPUBLIC OF KENYA HEREBY REVOKES Special Condition Number Five (5) of the within-written Grant and substitutes therefore the following Special condition Namely: The land and buildings shall be used for extraction of Salt, Shrimp and prawn farming and housing for essential staff.

AND for the consideration aforesaid the Grantee HEREBY AGREES to pay the within written rent on the first day of January in each year but subject to revision after five years (5) from the date hereof when the extra activities shall be operational and the Grantee accepts the revised special condition.

IN WITNESS whereof the Commissioner of Lands by order of the President has hereunto set his hand and the Common Seal of the Grantee has been hereunto affixed this 19th day of February One thousand nine hundred and eighty-eight.

SIGNED BY:

The Commissioner of Lands in the presence of:-

[Signature of Commissioner of Lands]

REGISTRAR OF TITLES

[Signature of Registrar of Titles]

THE COMMON SEAL of the Grantee was affixed hereto in the presence of:-

[Signature of Director/Secretary]

...../DIRECTOR/SECRETARY

Drawn by:

M. Okungu (Mrs) Senior Registrar of Titles, NAIROBI

LAND TITLES REGISTRY - MOMBASA - KENYA REGISTRATION OF TITLES ACT

REGISTERED AS No. C.P. 17511/2 Presented 1st March 1988 8.59am [Signature of Registrar of Titles]

Appendix 2
Company registration documents

30942



CERTIFICATE OF INCORPORATION

I hereby Certify, that—

SHERMAN LIMITED

On this day Incorporated under the Companies Act (Cap. 486) and that the company is LIMITED.

Given under my hand at Nairobi this EIGHTEENTH day
DECEMBER One Thousand Nine Hundred and EIGHTY FIVE

[Signature]
Snr. Dy Registrar of Companies



Certificate Date : 05/10/2017

Personal Identification Number

P000632683Z

This is to certify that taxpayer shown herein has been registered with Kenya Revenue Authority

Taxpayer Information

Payee Name	AL SHERMAN LIMITED
Address	ALSHERMANLTD@MMM.CO.KE

Registered Address

Number : ng	Building : mmm ltd building
Plot/Road : mwangeka road	City/Town : mombasa
County : Mombasa	District : Mombasa South District
Area : Mombasa South	Station : Mombasa South
Box : 87074	Postal Code : 80100

Tax Obligation(s) Registration Details

No.	Tax Obligation(s)	Effective From Date	Effective Till Date	Status
	Income Tax - Company	13/11/1993	N.A.	Active

The PIN must appear on all your tax invoices and correspondences with Kenya Revenue Authority. Your reporting end month is December unless a change has been approved by the Commissioner-Domestic Taxes Department. The status of Tax Obligation(s) with 'Dormant' status will automatically change to 'Active' on date entered in "Effective Till Date" or any transaction done during the period. This certificate shall remain in force until updated.

4

Appendix 3

Registration certificates and practicing license of the firm of Experts

FORM 5

(r.14(4))



**NATIONAL ENVIRONMENT MANAGEMENT AUTHORITY (NEMA)
 THE ENVIRONMENTAL MANAGEMENT AND CO-ORDINATION ACT
 CERTIFICATE OF REGISTRATION AS AN ENVIRONMENTAL IMPACT ASSESSMENT/
 AUDIT EXPERT**

Certificate No: NEMA/EIA/RC/2932

Application Reference No: NEMA/EIA/ER/6205

This is to certify M/s SIGTUNA CONSULTANCY LTD of

P.O. Box 569-80100, Mombasa (Address) has been registered as an Environmental

Impact Assessment Expert in accordance with the provisions of the Environmental Management and

Coordination Act Cap 387 and is authorized to practice in the capacity of a Lead Expert/Associate

Expert/Firm of Experts (Type) Firm of Experts

Expert Registration No: 9582

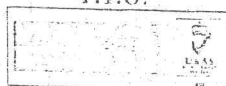
Issued Date : 11/6/2017

Signature

(Seal)

Director-General
 The National Environmental Management Authority

P.T.O.



ISO 9001: 2008 Certified



NATIONAL ENVIRONMENT MANAGEMENT AUTHORITY (NEMA)
 THE ENVIRONMENTAL MANAGEMENT AND CO-ORDINATION ACT

ENVIRONMENTAL IMPACT ASSESSMENT/AUDIT (EIA/EA) PRACTICING LICENSE

License No : NEMA/EIA/ERPL/6536

Application Reference No: NEMA/EIA/EL/9267

JNA CONSULTANCY LTD

(or firm) of address

9-80100, Mombasa

is licensed to practice in the

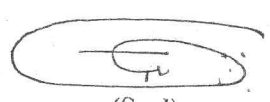
as (Lead Expert/Associate Expert/Firm of Experts) Firm of Experts
 number 9582

in accordance with the provision of the Environmental Management and Coordination Act Cap

1/10/2018

Expiry Date: 12/31/2018

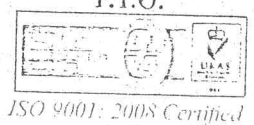
Signature.....



(Seal)

Director General
 The National Environment Management
 Authority

P.T.O.



ISO 9001: 2008 Certified

Conditions For Licensing

1. This license expires on 31st December of the year it is issued.
2. The expert shall comply with code of practice and Professional Ethics for EIA/EA experts.
3. The expert shall comply with the attached conditions.

General Conditions

1. All Environmental Experts certified and registered in the accordance with the provision of relevant Regulations, may establish professional associations to complement and implement the objectives of the Code of Practice.
2. An Expert shall act professionally, accurately, fairly and in an unbiased manner in undertaking his work.
3. The Director General, in consultation with relevant stakeholders, may from time to time issue guidelines for the proper conduct of registered Environmental Impact and Audit Experts.
4. Every Environmental Expert shall each year attend at least two relevant seminars organized by the authority for the purposes of improving the professional expertise of its members.
5. No Expert shall exploit the inexperience, lack of understanding, illiteracy or other lack of technical knowledge in environmental matters of a project proponent, owner or the public, for his personal gain.

Receiving Instructions

1. No Environmental Expert shall act for any project proponent unless he has received written instructions from such project proponent or his authorized agent.
2. An Environmental Expert shall not unreasonably delay the carrying out of instructions received from the project proponent of his authorized agent.
3. An Environmental Expert shall discharge his responsibilities to the project proponent with due diligence and integrity.
4. An Environmental Expert may terminate a contract on carrying out an environmental impact assessment or audit as stipulated in section 8 of the Code of Practice and Professional Ethics of EIA/EA Experts.

Carrying out an EIA/EA

1. An Environmental Expert shall follow relevant regulations or guidelines and directives issued by the Authority.
2. An Environmental Expert shall take due care and diligence to collect the relevant data to address the significant environmental issues in the various stages of the assessment or audit process and fully acknowledge the source of any data that is not the result of his findings.
3. Environmental Expert shall consult widely with all the relevant agencies, stakeholders, interested parties and the general public on all the matters that likely to affect them.
4. An Environmental Impact Assessment or Audit Report shall be based on the Terms of Reference of the Assignment and shall include all the matters relevant to the findings of the study, all the relevant matters are required by statutory provisions, and must be guided by professional standards and judgments.

Responsibility of Lead Environmental Experts

1. (1) An Environmental Lead Expert shall be responsible for the documents prepared by him/her on behalf of the project proponent.
(2) An Environmental Expert shall guide the proponent throughout the preparation of the environmental impact assessment and/or environmental audit, and/or during implementation of the Environmental Management Plan.
(3) An Environmental Expert shall disclose to a client or employer any relationships of conflicting or competing interests that may influence his judgment prior to the carrying out of work.

Misconduct of Environmental Experts

1. An Environmental Expert who contravenes a provision of Code of Practice and Professional Ethics shall be deemed to have committed professional misconduct and shall be subject to disciplinary action by the Authority as appropriate and as stipulated in the Code of Practice and Professional Ethics of Environmental Experts.

Disciplinary Action

1. Where an Environmental Expert is found to have committed professional misconduct by the Environmental Experts' Advisory Committee/Authority shall be punished as stated under section 19 of the code of Practice and Professional Ethics.

Appeals

1. (1) An Expert aggrieved by the decision of the Authority may apply for the review of such decision in the High Court.
(2) If an application for judicial review shall not have been filed at the expiry of 30 days from the date of the decision of the Authority, the director General may publicize the disciplinary action taken against the Expert.

Application Reference No:	1009
Registration:	1559

FOR OFFICIAL USE



**THE ENVIRONMENTAL MANAGEMENT AND COORDINATION ACT
 CERTIFICATE OF REGISTRATION AS AN ENVIRONMENTAL IMPACT
 ASSESSMENT/AUDIT EXPERT**

This is to certify M/s MR. PHILIP MANYI OMENGE
 of P. O. BOX 569 - 80100, MOMBASA (Address)
 has been registered as an Environmental Impact Assessment Expert in accordance with the
 provisions of the Environmental Management and Coordination Act and is authorised to practice
 in the capacity of a Lead Expert/Associate Expert/Firm of Experts (Type) LEAD EXPERT

Dated this 4TH Day JULY of 20.08....

Signature *Philip Manyi Omengi*

(Seal)

Director General
 The National Environment Management Authority



NATIONAL ENVIRONMENT MANAGEMENT AUTHORITY(NEMA)
 THE ENVIRONMENTAL MANAGEMENT AND CO-ORDINATION ACT

ENVIRONMENTAL IMPACT ASSESSMENT/AUDIT (EIA/EA) PRACTICING LICENSE

License No : NEMA/EIA/ERPL/7088

Application Reference No: NEMA/EIA/EL/9266

Philip Manyi Omenge
 (individual or firm) of address

P.O. Box 569-80100, Mombasa


is licensed to practice in the


Capacity of a (Lead Expert/Associate Expert/Firm of Experts) Lead Expert
 Registration number 1559

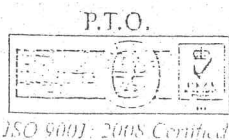
In accordance with the provision of the Environmental Management and Coordination Act Cap

Valid Date: 2/6/2018

Expiry Date: 12/31/2018

Signature... 

(Seal)
 Director General
 The National Environment Management
 Authority





NATIONAL ENVIRONMENT MANAGEMENT AUTHORITY(NEMA)
 THE ENVIRONMENTAL MANAGEMENT AND CO-ORDINATION ACT

ENVIRONMENTAL IMPACT ASSESSMENT/AUDIT (EIA/EA) PRACTICING LICENSE

License No : NEMA/EIA/ERPL/7088

Application Reference No: NEMA/EIA/EL/9266

M/S Philip Manyi Omenge
 (individual or firm) of address

P. O. Box 569-80100, Mombasa


is licensed to practice in the


capacity of a (Lead Expert/Associate Expert/Firm of Experts) Lead Expert
 registration number 1559

in accordance with the provision of the Environmental Management and Coordination Act Cap
 387.

Issued Date: 2/6/2018

Expiry Date: 12/31/2018

Signature... 

(Seal)
 Director General
 The National Environment Management
 Authority

Conditions For Licensing

1. This license expires on 31st December of the year it is issued.
2. The expert shall comply with code of practice and Professional Ethics for EIA/EA experts.
3. The expert shall comply with the attached conditions.

General Conditions

1. All Environment Experts certified and registered in the accordance with the provision of relevant Regulations, may establish professional associations to complement and implement the objectives of the Code of Practice.
2. An Expert shall act professionally, accurately, fairly and in an unbiased manner in undertaking his work.
3. The Director General, in consultation with relevant stakeholders, may from time to time issue guidelines for the proper conduct of registered Environmental Impact and Audit Experts.
4. Every Environmental Expert shall each year attend at least two relevant seminars organized by the authority for the purposes of improving the professional expertise of its members.
5. No Expert shall exploit the inexperience, lack of understanding, illiteracy or other lack of technical knowledge in environmental matters of a project proponent, owner or the public, for his personal gain.

Receiving Instructions

1. No Environmental Expert shall act for any project proponent unless he has received written instructions form such project proponent or his authorized agent.
2. An Environmental Expert shall not unreasonably delay the carrying out of instructions received from the project proponent of his authorized agent.
3. An Environmental Expert shall discharge his responsibilities to the project proponent with due diligence and integrity.
4. An Environment Expert may terminate a contract on carrying out an environmental impact assessment or audit as stipulated in section 8 of the Code of Practice and Professional Ethics of EIA/EA Experts.

Carrying out an EIA/EA

1. An Environmental Expert shall follow relevant regulations or guidelines and directives issued by the Authority.
2. An Environmental Expert shall take due care and diligence to collect the relevant data to address the significant environmental issues in the various stages of the assessment or audit process and fully acknowledge the source of any data that is not the result of his findings.
3. Environmental Expert shall consult widely with all the relevant agencies, stakeholders, interested parties and the general public on all the matters that likely to affect them.
4. An Environmental Impact Assessment or Audit Report shall be based on the Terms of Reference of the Assignment and shall include all the matters relevant to the findings of the study, all the relevant matters are required by statutory provisions, and must be guided by professional standards and judgments.

Responsibility of Lead Environmental Experts

1. (1) An Environmental Lead Expert shall be responsible for the documents prepared by him/her on behalf of the project proponent.
(2) An Environmental Expert shall guide the proponent throughout the preparation of the environmental impact assessment and/or environmental audit, and/or during implementation of the Environmental Management Plan.
(3) An Environmental Expert shall disclose to a client or employer any relationships of conflicting or competing interests that may influence his judgment prior to the carrying out of work.

Misconduct of Environmental Experts

1. An Environmental Expert who contrivances a provision of Code of Practice and Professional Ethics shall be deemed to have committed professional misconduct and shall be subject to disciplinary action by the Authority as appropriate and as stipulated in the Code of Practice and Professional Ethics of Environmental Experts.

Disciplinary Action

1. Where an Environmental Expert is found to have committed professional misconduct by the Environmental Experts' Advisory Committee/Authority shall be punished as stated under section 19 of the code of Practice and Professional Ethics.

Appeals

1. (1) An Expert aggrieved by the decision of the Authority may apply for the review of such decision in the High Court.
(2) If an application for judicial review shall not have been filed at the expiry of 30 days from the date of the decision of the Authority, the director General may publicize the disciplinary action taken against the Expert.

Application Reference No: 213
Registration No: 0094

FOR OFFICIAL USE



THE ENVIRONMENTAL MANAGEMENT AND COORDINATION ACT
CERTIFICATE OF REGISTRATION AS AN ENVIRONMENTAL IMPACT
ASSESSMENT/AUDIT EXPERT

This is to certify Ms. HEZEKIAH O. ADALA
of P. O. BOX 42269, MOMBASA (Address)
has been registered as an Environmental Impact Assessment Expert in accordance with the provisions
of the Environment Management and Coordination Act and is authorized to practice in the capacity of
a Lead Expert/Associate Expert/Firm of Experts (Type) LEAD EXPERT

Dated this 11TH day JUNE of 20.04....

Signature: *P. W. Kihika*

(Seal)
Director General
The National Environmental Management Authority

FORM 7

(1.15(2))



NATIONAL ENVIRONMENT MANAGEMENT AUTHORITY (NEMA)
THE ENVIRONMENTAL MANAGEMENT AND CO-ORDINATION ACT
ENVIRONMENTAL IMPACT ASSESSMENT/AUDIT (EIA/EA) PRACTICING LICENSE

License No : NEMA/EIA/ERPL/7631

Application Reference No: NEMA/EIA/EL/10623

M/S Hezekia Adala
(individual or firm) of address

P.O. Box 42265-80100, Mombasa

is licensed to practice in the

capacity of a (Lead Expert/Associate Expert/Firm of Experts) **Lead Expert**
registration number **0094**

in accordance with the provision of the Environmental Management and Coordination Act Cap
387.

Issued Date: **3/21/2018**

Expiry Date: **12/31/2018**

Signature.....

(Seal)

Director General
The National Environment Management
Authority

P.T.O.



ISO 9001:2008 Certified

Conditions For Licensing

1. This license expires on 31st December of the year it is issued.
2. The expert shall comply with code of practice and Professional Ethics for EIA/EA experts.
3. The expert shall comply with the attached conditions.

General Conditions

1. All Environment Experts certified and registered in the accordance with the provision of relevant Regulations, may establish professional associations to complement and implement the objectives of the Code of Practice.
2. An Expert shall act professionally, accurately, fairly and in an unbiased manner in undertaking his work.
3. The Director General, in consultation with relevant stakeholders, may from time to time issue guidelines for the proper conduct of registered Environmental Impact and Audit Experts.
4. Every Environmental Expert shall each year attend at least two relevant seminars organized by the authority for the purposes of improving the professional expertise of its members.
5. No Expert shall exploit the inexperience, lack of understanding, illiteracy or other lack of technical knowledge in environmental matters of a project proponent, owner or the public, for his personal gain.

Receiving Instructions

1. No Environmental Expert shall act for any project proponent unless he has received written instructions form such project proponent or his authorized agent.
2. An Environmental Expert shall not unreasonably delay the carrying out of instructions received from the project proponent of his authorized agent.
3. An Environmental Expert shall discharge his responsibilities to the project proponent with due diligence and integrity.
4. An Environment Expert may terminate a contract on carrying out an environmental impact assessment or audit as stipulated in section 8 of the Code of Practice and Professional Ethics of EIA/EA Experts.

Carrying out an EIA/EA

1. An Environmental Expert shall follow relevant regulations or guidelines and directives issued by the Authority.
2. As Environmental Expert shall take due care and diligence to collect the relevant data to address the significant environmental issues in the various stages of the assessment or audit process and fully acknowledge the source of any data that is not the result of his findings.
3. Environmental Expert shall consult widely with all the relevant agencies, stakeholders, interested parties and the general public on all the matters that likely to affect them.
4. An Environmental Impact Assessment or Audit Report shall be based on the Terms of Reference of the Assignment and shall include all the matters relevant to the findings of the study, all the relevant matters are required by statutory provisions, and must be guided by professional standards and judgments.

Responsibility of Lead Environmental Experts

1. (1) An Environmental Lead Expert shall be responsible for the documents prepared by him/her on behalf of the project proponent.
(2) An Environmental Expert shall guide the proponent throughout the preparation of the environmental impact assessment and/or environmental audit, and/or during implementation of the Environmental Management Plan.
(3) An Environmental Expert shall disclose to a client or employer any relationships of conflicting or competing interests that may influence his judgment prior to the carrying out of work.

Misconduct of Environmental Experts

1. An Environmental Expert who contrivances a provision of Code of Practice and Professional Ethics shall be deemed to have committed professional misconduct and shall be subject to disciplinary action by the Authority as appropriate and as stipulated in the Code of Practice and Professional Ethics of Environmental Experts.

Disciplinary Action

1. Where an Environmental Expert is found to have committed professional misconduct by the Environmental Experts' Advisory Committee/Authority shall be punished as stated under section 19 of the code of Practice and Professional Ethics.

Appeals

1. (1) An Expert aggrieved by the decision of the Authority may apply for the review of such decision in the High Court.
(2) If an application for judicial review shall not have been filed at the expiry of 30 days from the date of the decision of the Authority, the director General may publicize the disciplinary action taken against the Expert.

Application Reference No 330
Registration No 0357
FOR OFFICIAL USE



THE ENVIRONMENTAL MANAGEMENT AND COORDINATION ACT
CERTIFICATE OF REGISTRATION AS AN ENVIRONMENTAL IMPACT
ASSESSMENT/AUDIT EXPERT

This is to certify Ms. MR. JAMES MORDUMBASI MONG'ONI (Address)
P. O. BOX 10054-00100, NAIROBI
has been registered as an Environmental Impact Assessment Expert in accordance with the provisions
of the Environment Management and Coordination Act and is authorized to practice in the capacity of
a Lead Expert/Associate Expert/Firm of Experts (Type) LEAD EXPERT

Dated this 20TH day NOVEMBER of 2004

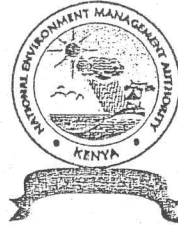
Signature *Ruth Njiru*

(Seal)

Director General
The National Environmental Management Authority

Application Reference No:	1296
Registration:.....	1848

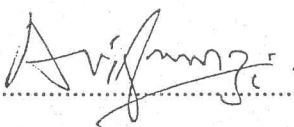
FOR OFFICIAL USE



**THE ENVIRONMENTAL MANAGEMENT AND COORDINATION ACT
 CERTIFICATE OF REGISTRATION AS AN ENVIRONMENTAL IMPACT
 ASSESSMENT/AUDIT EXPERT**

This is to certify M/s BEATRICE MINOO NGUTI.....
 of P.O. BOX 84950 MOMBASA (Address)
 has been registered as an Environmental Impact Assessment Expert in accordance with the
 provisions of the Environmental Management and Coordination Act and is authorised to practice
 in the capacity of a Lead Expert/Associate Expert/Firm of Experts (Type) ASSOCIATE
 EXPERT

Dated this 20TH Day APRIL of 20 09

Signature..... 

(Seal)

Director General
 The National Environment Management Authority

FORM 7

(r.15(2))



NATIONAL ENVIRONMENT MANAGEMENT AUTHORITY (NEMA)
THE ENVIRONMENTAL MANAGEMENT AND CO-ORDINATION ACT

ENVIRONMENTAL IMPACT ASSESSMENT/AUDIT (EIA/EA) PRACTICING LICENSE

License No : NEMA/EIA/ERPL/7162

Application Reference No: NEMA/EIA/EL/10135

M/S BEATRICE MINOO NGUTI
(individual or firm) of address

P.O. Box 84950 ,Mombasa

is licensed to practice in the

capacity of a (Lead Expert/Associate Expert/Firm of Experts) **Associate Expert**
registration number **1848**

in accordance with the provision of the Environmental Management and Coordination Act Cap 387.

Issued Date: 2/12/2018

Expiry Date: 12/31/2018

Signature.....

(Seal)

Director General
The National Environment Management
Authority

P.T.O.



ISO 9001: 2008 Certified

Conditions For Licensing

1. This license expires on 31st December of the year it is issued.
2. The expert shall comply with code of practice and Professional Ethics for EIA/EA experts.
3. The expert shall comply with the attached conditions.

General Conditions

1. All Environmental Experts certified and registered in the accordance with the provision of relevant Regulations, may establish professional associations to complement and implement the objectives of the Code of Practice.
2. An Expert shall act professionally, accurately, fairly and in an unbiased manner in undertaking his work.
3. The Director General, in consultation with relevant stakeholders, may from time to time issue guidelines for the proper conduct of registered Environmental Impact and Audit Experts.
4. Every Environmental Expert shall each year attend at least two relevant seminars organized by the authority for the purposes of improving the professional expertise of its members.
5. No Expert shall exploit the inexperience, lack of understanding, illiteracy or other lack of technical knowledge in environmental matters of a project proponent, owner or the public, for his personal gain.

Receiving Instructions

1. No Environmental Expert shall act for any project proponent unless he has received written instructions from such project proponent or his authorized agent.
2. An Environmental Expert shall not unreasonably delay the carrying out of instructions received from the project proponent of his authorized agent.
3. An Environmental Expert shall discharge his responsibilities to the project proponent with due diligence and integrity.
4. An Environmental Expert may terminate a contract on carrying out an environmental impact assessment or audit as stipulated in section 8 of the Code of Practice and Professional Ethics of EIA/EA Experts.

Carrying out an EIA/EA

1. An Environmental Expert shall follow relevant regulations or guidelines and directives issued by the Authority.
2. An Environmental Expert shall take due care and diligence to collect the relevant data to address the significant environmental issues in the various stages of the assessment or audit process and fully acknowledge the source of any data that is not the result of his findings.
3. Environmental Expert shall consult widely with all the relevant agencies, stakeholders, interested parties and the general public on all the matters that likely to affect them.
4. An Environmental Impact Assessment or Audit Report shall be based on the Terms of Reference of the Assignment and shall include all the matters relevant to the findings of the study, all the relevant matters are required by statutory provisions, and must be guided by professional standards and judgments.

Responsibility of Lead Environmental Experts

- (1) An Environmental Lead Expert shall be responsible for the documents prepared by him/her on behalf of the project proponent.
- (2) An Environmental Expert shall guide the proponent throughout the preparation of the environmental impact assessment and/or environmental audit, and/or during implementation of the Environmental Management Plan.
- (3) An Environmental Expert shall disclose to a client or employer any relationships of conflicting or competing interests that may influence his judgment prior to the carrying out of work.

Misconduct of Environmental Experts

1. An Environmental Expert who contravenes a provision of Code of Practice and Professional Ethics shall be deemed to have committed professional misconduct and shall be subject to disciplinary action by the Authority as appropriate and as stipulated in the Code of Practice and Professional Ethics of Environmental Experts.

Disciplinary Action

1. Where an Environmental Expert is found to have committed professional misconduct by the Environmental Experts' Advisory Committee/Authority shall be punished as stated under section 19 of the code of Practice and Professional Ethics.

Appeals

- (1) An Expert aggrieved by the decision of the Authority may apply for the review of such decision in the High Court.
- (2) If an application for judicial review shall not have been filed at the expiry of 30 days from the date of the decision of the Authority, the director General may publicize the disciplinary action taken against the Expert.



**STATEMENT NATIONAL ENVIRONMENT MANAGEMENT AUTHORITY (NEMA)
 MADE BY THE ENVIRONMENTAL MANAGEMENT AND CO-ORDINATION ACT
 IN ACCORDANCE WITH CERTIFICATE OF REGISTRATION AS AN ENVIRONMENTAL IMPACT ASSESSMENT/
 AUDIT EXPERT**

Certificate No: NEMA/EIA/RC/1247

Certificate No: NEMA/EIA/RC/1247

Application Reference No: NEMA/EIA/ER/3215

Application Reference No:

NEMA/EIA/ER/3215

This is to certify M/s JONNATHAN KATANA YERI

of

P.O. BOX 569-80100 MOMBASA

(Address) has been registered as an Environmental

Impact Assessment Expert in accordance with the provisions of the Environmental Management and

Coordination Act and is authorized to practice in the capacity of a Lead Expert/Associate Expert/Firm of

Experts (Type) Associate Expert

Expert Registration No: 7890

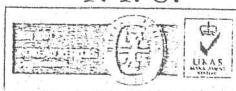
Issued Date : 2/15/2016

Signature

(Seal)

Director-General
 The National Environmental Management Authority

P. T. O.





NATIONAL ENVIRONMENT MANAGEMENT AUTHORITY(NEMA)

THE ENVIRONMENTAL MANAGEMENT AND CO-ORDINATION ACT

ENVIRONMENTAL IMPACT ASSESSMENT/AUDIT (EIA/EA) PRACTICING LICENSE

License No: NEMA/EIA/ERPL/6535

License No : NEMA/EIA/ERPL/6535

Reference No: NEMA/EIA/EL/9265

Application Reference No: NEMA/EIA/EL/9265

M/S JONNATHAN KATANA YERI

(individual or firm) of address

P.O. Box 569-80100, Mombasa

is licensed to practice in the

capacity of a (Lead Expert/Associate Expert/Firm of Experts) Associate Expert

registration number 7890

in accordance with the provision of the Environmental Management and Coordination Act Cap 387.

Issued Date: 1/10/2018

Expiry Date: 12/31/2018

Signature

(Seal)

Director General

National Environment Management

Authority

Signature.....

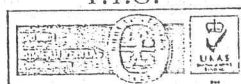
(Seal)

Director General

The National Environment Management

Authority

P.T.O.



ISO 9001: 2008 Certified

Conditions For Licensing

1. This license expires on 31st December of the year it is issued.
2. The expert shall comply with code of practice and Professional Ethics for EIA/EA experts.
3. The expert shall comply with the attached conditions.

General Conditions

1. All Environment Experts certified and registered in the accordance with the provision of relevant Regulations, may establish professional associations to complement and implement the objectives of the Code of Practice.
2. An Expert shall act professionally, accurately, fairly and in an unbiased manner in undertaking his work.
3. The Director General, in consultation with relevant stakeholders, may from time to time issue guidelines for the proper conduct of registered Environmental Impact and Audit Experts.
4. Every Environmental Expert shall each year attend at least two relevant seminars organized by the authority for the purposes of improving the professional expertise of its members.
5. No Expert shall exploit the inexperience, lack of understanding, illiteracy or other lack of technical knowledge in environmental matters of a project proponent, owner or the public, for his personal gain.

Receiving Instructions

1. No Environmental Expert shall act for any project proponent unless he has received written instructions from such project proponent or his authorized agent.
2. An Environmental Expert shall not unreasonably delay the carrying out of instructions received from the project proponent of his authorized agent.
3. An Environmental Expert shall discharge his responsibilities to the project proponent with due diligence and integrity.
4. An Environment Expert may terminate a contract on carrying out an environmental impact assessment or audit as stipulated in section 8 of the Code of Practice and Professional Ethics of EIA/EA Experts.

Carrying out an EIA/EA

1. An Environmental Expert shall follow relevant regulations or guidelines and directives issued by the Authority.
2. As Environmental Expert shall take due care and diligence to collect the relevant data to address the significant environmental issues in the various stages of the assessment or audit process and fully acknowledge the source of any data that is not the result of his findings.
3. Environmental Expert shall consult widely with all the relevant agencies, stakeholders, interested parties and the general public on all the matters that likely to affect them.
4. An Environmental Impact Assessment or Audit Report shall be based on the Terms of Reference of the Assignment and shall include all the matters relevant to the findings of the study, all the relevant matters are required by statutory provisions, and must be guided by professional standards and judgments.

Responsibility of Lead Environmental Experts

1. (1) An Environmental Lead Expert shall be responsible for the documents prepared by him/her on behalf of the project proponent.
(2) An Environmental Expert shall guide the proponent throughout the preparation of the environmental impact assessment and/or environmental audit, and/or during implementation of the Environmental Management Plan.
(3) An Environmental Expert shall disclose to a client or employer any relationships of conflicting or competing interests that may influence his judgment prior to the carrying out of work.

Misconduct of Environmental Experts

1. An Environmental Expert who contravenes a provision of Code of Practice and Professional Ethics shall be deemed to have committed professional misconduct and shall be subject to disciplinary action by the Authority as appropriate and as stipulated in the Code of Practice and Professional Ethics of Environmental Experts.

Disciplinary Action

1. Where an Environmental Expert is found to have committed professional misconduct by the Environmental Experts' Advisory Committee/Authority shall be punished as stated under section 19 of the code of Practice and Professional Ethics.

Appeals

1. (1) An Expert aggrieved by the decision of the Authority may apply for the review of such decision in the High Court.
(2) If an application for judicial review shall not have been filed at the expiry of 30 days from the date of the decision of the Authority, the director General may publicize the disciplinary action taken against the Expert.

Appendix 4
Curriculum vitae of the team of experts

CV: PHILIP MANYI OMENGE

CURRICULUM VITAE

PERSONAL DATA

Name: Philip Manyi Omenge

Date of birth: 6th June 1974

Sex: Male

Nationality: Kenyan

Marital status: Married

Languages: English, Kiswahili and Ekegusii (written and spoken)

Profession: Natural Resources Management/Ecologist

Contacts: Box 569-80100 Mombasa, E-mail: philipomenge@gmail.com,

philipomenge@yahoo.com, Cell phone +254 722 493 772, Skype address omengemp, twitter @philipomenge

OVERVIEW

I am a trained Natural Resources Management (NRM) /Ecologist, Rural Development, Gender Mainstreaming and Resource Based Conflict Management Specialist. I have experience and working knowledge in management and sustainable utilization of natural resources including forestry resources, wildlife resources, mineral resources, renewable energy resources, marine and freshwater resources. I have over thirteen years of experience in NRM/Ecological focused research in support of Environmental and Social Impact Assessments (ESIA), Environmental Audits, Environmental Monitoring, Project Planning and Management. I have variable experience in stakeholder engagement and consultation in the environmental, social impact assessment process and environmental monitoring. I am trained at Graduate Level in Participatory Research Management with good working knowledge and application of the main tools of Participatory Research and conceptual frameworks. I have undertaken various Environmental and Social Impact Assessment projects in various sectors including in solar energy, wind energy, marine environment, mining, building and construction, housing, salt production, steel manufacturing, cement manufacturing, crop farming and water resources. I have also been involved in supervising undergraduate students (external field supervisor) during their official field attachment programmes. My interest include contribution of variable input to ensure sustainable utilization of natural resources for sustainable development of rural economies, resource based conflict identification and prevention using environmental and social impact assessment tool, transfer of knowledge and skills in the area of sustainable utilization of natural resources and environmental management.

EDUCATION BACKGROUND

- September 2015 to date** Egerton University, Njoro Kenya
PhD in Natural Resources and Peace – Research to
Evaluation of the effectiveness of Environmental and So
Impact Assessment (ESIA) in conflict identification
prevention for renewable energy projects in Kenya.
- November 2000-April 2002** The Swedish University of Agricultural Sciences (SLU), Upps
Sweden
**Masters of Science Degree with a Specialization In Ru
Development Studies** – Research Thesis: The Role of Butter
Farming in Forest Conservation and Community Development
Kenya. Main courses taken are Natural Resources Managem
Extension Research, Theory and Practice, Field Research Meth
and Practice, the Political Economy of Rural Change, Participat
Research Management, Women Population and the Environme
Research Methods, Globalisation, the State and Civil Society.
- April 1994-August 1999:** Egerton University, Njoro Kenya
**Bachelor of Science Degree in Natural Resourc
Management** - Majoring in Forestry with Wildlife Managem
and Range Management being minors.
- 1990-1992:** **Senior Chief Koinange High School Kiambu, Kenya**
Kenya Certificate of Secondary Education (KCSE)
- 1981-1988** **Gesabakwa Primary School, Kisii, Kenya**
Kenya Certificate of Primary Education (KCPE)

CAPACITY BUILDING SHORT COURSES/TRAINING

- May 2018-April 2019 Mentoring for Research Programme (MRP), a Pan-African Initiative of ISNAD-Africa for students conducting research on sustainable energy, environment and climate change topics for their thesis in African Universities. My Mentor is Prof. Jatin Nathwani of the University of Waterloo, Canada.
- March 12th – April 13th 2018 The Swedish University of Agricultural Science, Sweden and the University of Dar Es Salam Business School, Tanzania.
Postgraduate Training Certificate (7.5 ECT) in Gender in Rural Entrepreneurship'
- March 3rd 2018 Post Graduate Certificate: Essential Skills for Effective Mentoring Relationship. ISNAD- Africa and Clean Energy Solution Centre
- February 17th 2018 Post Graduate Certificate: Environmental Sustainability in Africa, ISNAD-Africa, and Clean Energy Solution Centre
- February 5th 2018 Post Graduate Certificate: Africa Energy Landscape: Prospects, Status and Challenges. ISNAD-Africa and Clean Energy Solution Centre
- April- June 2017 ISNAP; Proposal Writing and Research Writing Online Course
Certificate of Achievement, Grade Merite: AuthorAID
- Feb-March 2017 The Swedish University of Agricultural Science, Sweden and the University of Dar Es Salam Business School, Tanzania.
Postgraduate Training Certificate (3 ECT) in 'Science and Leadership for Transforming Institutions'
- July 2004 Kenya National Cleaner Production Centre, Nairobi Kenya
Certificate of Merit in Environmental Audit

AWARDS

Digital Budes: AUTHORAID issued by INASP on 30th June 2017. This budge can be accessed online

<http://moodle.inasp.info/badges/mybadges.php>



AuthorAID Proposal Writing and Research Writing Online Course (April to June 2017) - Merit Grade

PROFESSIONAL QUALIFICATIONS/REGISTRATION

2008-2018 Registered, licensed and practicing Environmental Impact Assessment/Environmental Audit **Lead Expert**, National Environment Management Authority, Kenya.

2004-2007 Registered, licensed and practicing Environmental Impact Assessment/ Environmental Audit **Associate Expert**, National Environment Management Authority, Kenya.

MEMBERSHIP OF PROFESSIONAL BODIES/NETWORKS

2015- 2018 Member Environmental Institute of Kenya (EIK)

2018 Member International Support Network for African Development (ISNAD-Africa)

WORK EXPERIENCE

November 2011 to date: **Sigtuna Consultancy Limited, Mombasa Kenya**

Position Held: NRM specialist/Lead Consultant/Director

Duties and responsibilities NRM and ecological studies, formulation of specialist team of experts for Environmental Projects, identification of all stakeholders of Environmental and Social Impact Assessment projects being carried out by the firm, contacting stakeholders, planning for appropriate stakeholder consultations, heading the secretariat during stakeholder consultations and preparing reports

for stakeholder meetings, processing feedback from stakeholders, follow-up with stakeholders for emerging issues, participation, managing and overseeing the compiling of environmental and social impact assessment reports, environmental audit reports, environmental monitoring reports and other project reports.

May 2005-October 2011

Sigtuna Consultancy Mombasa Kenya

Position Held

NRM specialist /Lead Consultant

Duties and responsibilities: NRM and ecological studies, stakeholder consultations for all Environmental and Social Impact Assessment Projects, Environmental Impact Assessment Project Reports Project, Environmental Audit projects and environmental monitoring reports. Compilation of stakeholder consultation reports of environmental projects carried out by the firm.

MAJOR ENVIRONMENTAL CONSULTANCIES UNDERTAKEN

World Bank Funded and Other Multilateral funding agencies Projects

- ✓ **Word Bank funded project:** Judicial Performance Improvement Project (JPIP). Environmental and Social Impact Assessment (ESIA) and Environmental and Social Management Plan (ESMP) for Kangema Law Courts Phase II. May 2017 to July 2017.
- ✓ **Word Bank funded project:** Kenya Coastal Development Project (KCDP): Environmental and Social Audit for Sub-projects funded under KCDP in the six counties of Coast region. February 2017- May 2017
- ✓ **JICA Funded project:** Mombasa Port Development: Monitoring the implementation of the Environmental Management and Monitoring Plan (EMMP) for the Construction of Mombasa Port Project berths 21 and 22 and associated infrastructure. Environmental monitoring for Marine flora and fauna, terrestrial flora and fauna, mangrove replanting and traffic monitoring. Period of assignment 4 years 2012-2015

- ✓ **Word Bank funded project: Kenya Coastal Development Project (KCDP):**
Environmental and Social Audit for Sub-project funded under KCDP in the six countries
Coast region. April 2015 to December 2015.

Projects involving Salt Production

- ✓ Environmental Impact Assessment for proposed expansion of Krystaline Salt Limited at
Marereni, Kilifi County.
- ✓ Environmental Impact Assessment for the installation of a salt refinery at Krytaline Salt
Limited at Gongoni, Kilifi County.

Projects involving production and transmission of Energy

- i. Environmental and Social Impact Assessment for installation of 12 wind turbines for the
production and transmission of 36MW from wind energy by Mombasa Cement Limited
(2016)
- ii. Environmental and Social Impact Assessment for installation of 6964 PV solar panels for
production of solar energy by Krystalline Salt Limited (2015)

Projects in the Medical health sector

- i. Environmental and Social Impact Assessment for Tasa Pharma Limited, a Pharmaceutical
factory in Nairobi (July-September 2017)
- ii. Environmental and Social Impact Assessment for proposed Cardiologic Community Clinic
at Zhogatho, Gongoni Malindi
- iii. Environmental and Social Impact Assessment for proposed Medical Clinic at Malindi for
Dr, Yunis Burhanuddin
- iv. Environmental and Social Impact Assessment for proposed expansion of the Lions Eye
Centre Mombasa

Projects in the Marine Environmental

- i. Environmental Impact Assessment for construction of a floating jetty near Leven
House, Mombasa County in the year 2014 for Pearl Beach Hotels English Point
Marina

- ii. Environmental Impact Assessment for temporary Yard with a Jetty at Dongo Kundu Likoni, Mombasa County in the 2011 for Toyo Construction Company Limited , Mombasa Port Development Project
- iii. Environmental Impact Assessment for the English Point Marine (2009) for Pearl Beach Hotels.
- iv. Environmental Monitoring for the Mombasa Port Development Project (2012-2015) comprising of the following marine component:
 - ✓ Monitoring of marine vegetation and fauna (coral reef and sea grass)
 - ✓ Mangrove replanting.
- v. Environmental and Social Audit for the Sub-Projects financed under the Kenya Coastal Development Project (KCDP) in 2015 covering the following marine sub-projects:
 - ✓ Community Based Coral Reef Restoration at Wasini. Kwale County
 - ✓ Seaweed farming at Kibuyuni, Kwale County
 - ✓ Seaweed farming at Funzi, Kwale County
 - ✓ Seaweed farming at Mkwiro, Kwale County
 - ✓ Crab farming at Dabaso Mida Creek Kilifi County
 - ✓ Prawns and Milk Fish farming at Makongeni Gazi Bay Kwale County
 - ✓ Prawns and Milk Fish farming at Kibaoni Kilifi Creek Kilifi County
 - ✓ Fish Aggregating Devises (FADs) at Twapa Creek, Kilifi County
 - ✓ Mangrove restoration (establishment of mangrove nurseries and replanting of mangroves in degraded areas) at Kibaoni Creek, Kilifi County
 - ✓ Mangrove restoration (establishment of mangrove nurseries and replanting of mangroves in degraded areas) at Makongeni, Gazi Bay Kwale County,
 - ✓ Mangrove restoration (establishment of mangrove nurseries and replanting of mangroves in degraded areas) at Faza, Lamu County

Government Projects

- **Office of the Prime Minister and Ministry of State for Public Service, The Government Training Institute Mombasa, (2011) Environmental Impact Assessment for construction of Conference Centre, GTI Mombasa.**

- **Ministry of Local Government, County Council of Taita Taveta (2010)** Environmental Impact Assessment for construction of Maungu Lorry Park.
- **Ministry of Fisheries Development (2009)**, Kenya Marine Fisheries Research Institute (KMFRI-Mombasa). Environmental Impact Assessment for construction of the KMFRI – Marine & Ocean Resource Centre Mombasa;
- **Ministry of Fisheries Development(2008)**, Department of Fisheries Mombasa Environmental Impact Assessment for Modernization of Mombasa Old Town Fish Market;
- **The Judiciary, The High Court of Kenya (2008)** Environmental Impact Assessment for construction of Malindi Law Courts Complex;
- **Ministry of Local Government, Municipal Council of Voi (2008)**, Environmental Impact Assessment for construction of Municipal Slaughterhouse.
- **Office of the Vice President and Ministry of Home Affairs-Betting Control and Licensing Board (2006)** Environmental Impact Assessment for Office Complex in Mombasa.

Corporates

- **Mombasa Cement Limited (2005 –2018)**
Carrying out Environmental Impact Assessment (EIA) and Environmental Audit (EA) for the factory and associated facilities.
- **Mulji Devraji & Brothers Limited (2007-2012)**
Carrying out Environmental Impact Assessment (EIA) and Environmental Audits (EA) for Mulji Devraji & Brothers Limited and their subsidiary companies namely Halai Brothers Limited, Surya Development Limited and Royal Reserve Safari and Beach Club. Compilation of the following reports: Improvement Orders Reports, Progress Reports on implementation of Environmental Management Plans, Environmental Monitoring Reports and liaising with government and other stakeholders on environmental Matters on behalf of the company.
- **Corrugated Group of Companies (2008-2018)**
Carrying out Environmental Audit and compilation of the following reports for all the subsidiary companies of Corrugated Group (Corrugated Sheets Limited, Kavee Quarries Limited, and Standard Rolling Mills Limited) Annual Environmental Audit

Reports, Periodic Improvement Order Reports, Periodic Progress Reports on Monitoring Reports. Liaising with government and other stakeholders on environmental matters on behalf of the company

- Toyo Construction Co; Ltd ; EIA Project Reports for Temporary yards at Dongo Kundu, Likoni District and Port Reitz, Environmental monitoring and environmental audits
- Mt. Zion Children's Home : EIA Project Report for construction of Hotel and Conference centre in Nyali, Mombasa County

Sector specific projects

- **Renewable energy projects** : Environmental Impact Assessment Project Report for proposed solar farm and mini- solar farms to be developed by Krystalline Salt Limited, Gongoni and Marereni, Kilifi County, Environmental impact assessment project report for proposed 36 MW wind farm to be developed by Mombasa Cement Limited, Vipingo, Kilifi County.
- **Cement industry**: Environmental impact assessment study for Mombasa Cement Vipingo, Kilifi County, Environmental Impact Assessment study for Mombasa Cement Athi River, Machakos County.
- **Housing projects**; Various EIAs for housing project including Akashardham Apartments Mishomoroni, Lantana Homes, Diani, Kerav Estate Mtopanga Mombasa, 300 apartments for Kopex Industries limited Mombasa, Ideal Location shopping mall at Nakumatt Nyali Mombasa, Likoni towers in Likoni Mombasa, (2005-2014)
- **Mining projects**; Various EIAs and EAs in the mining sector including Kavee Quarries, Kaydee Quarry, Surya Quarry, Cortec Mining (K) Limited, Mombasa Cement quarries and Jaribuni Quarry (2004-2015)
- **Agricultural projects**; Garder General Trading Limited Mixed Farming Project at Matolani Malindi (2010)
- **Salt manufacturing projects**; EAs for Mombasa Salt Works (defunct) and Krystalline Salt Works Limited, Kemu Salt Parkers Limited and Malindi Salt Works Limited (2010-2018).
- **Water Resources projects**:
 - a) Environmental Impact Assessment for the reopening of Balasa stream channel at Marereni Kilifi County

- b) Environmental Impact Assessment for the reopening of Kambi Ya Waya stream channel at Kambi Ya Waya Kilifi County.
- c) Environmental Impact Assessment for Boyani Community Borehole Project Kwale County
- d) Environmental Impact Assessment for drilling of borehole for John Morangi Omenge farm at Boyani, Kwale County.
- e) Environmental impact assessment for proposed borehole at Krytaline Salt Limited Changamwe Mombasa County
- f) Environmental impact assessment for proposed borehole at Krytaline Salt Limited Gongoni SaltWorks Kilifi County
- g) Environmental impact assessment for proposed borehole at Krytaline Salt Limited Marereni Salt works Kilifi County
- **Forest resources:** EIA Study for establishment of community woodlots for biomass fuel supply for Krystalline Salt Limited Salt Refinery at Gongoni, Magarini Sub-County Kilifi County

Environmental Monitoring

- Team Leader and Lead Consultant Mombasa port Development Project: Monitoring of Terrestrial Flora and Fauna, Marine Flora and fauna, Traffic monitoring and Mangrove Forest rehabilitation at the Ganahola area Tudor Creek Mombasa County (2012-2015)

Medical health Institutions

- i. Environmental Audit for Jordan Medical Centre, Kisauni, Mombasa
- ii. Environmental Audit for Jocham Hospital, Mombasa
- iii. Environmental Audit for Lighthouse for Christ Eye Centre, Mombasa

Environmental audits for Tea warehouses

- Bahari (T) Company Limited
- Mbaraki Port Warehouse (Kenya) Limited
- Alibhai Ramji (MSA) Limited
- Peerless Tea Services Limited

- Packlog Enterprises

Hotel Industry

I have undertaken **Environmental Audits** for the following hotels and restaurants:-

- Coral Key Resort
- Lantana Galu Beach
- Lawfords Hotel
- Garoda Resort, Watamu,
- Aquarius Beach Resort, Watamu,
- Temple point Resort Watamu
- Galu Sea Lodge Resort, Diani
- Papilio Limited –Malindi
- Maasai Bars and Restaurants
- Travellers Beach Hotel and Club
- Victoria Beach Resort, Malindi
- Leisure Lodge Beach Resort, Diani
- Mwembe Resort, Malindi
- Royal Reserve Safari and Beach Club, Kikambala
- Che-Shale Resort Malindi;
- Kinondo Kwetu Resort Diani
- Sunset Paradise Apartments, Shanzu, Mombasa

UNDERGRADUATE STUDENT SUPERVISION

I have successfully supervised the following undergraduate students who were attachment in my office in the period 2013-2015.

1. Eshiamwata Antony – Pwani University Undergraduate student registration number **N36/PUC/0545/12** registered in the School of Agriculture and Environmental Sciences Department of Environmental Planning and Management. Period of attachment supervision 4th May 2015 to 7th August 2015.
2. Yeri Jonathan Katana - Jomo Kenyata University of Agriculture and Technology - Undergraduate student registration number **EN262-0739/2009** registered in the Department of Biomechanical and Environmental Engineering undertaking a Bachelor of Science degree in Soil, Water and Environmental Engineering. Period of attachment supervision 13th January 2014 to 8th March 2014.
3. Aded Kiumba – Kenyatta University- Undergraduate student registration number **N36/2770/2010** registered in the School of Environmental Studies, Department of Environmental Planning and Management undertaking a Bachelor of Science degree in

- Packlog Enterprises

Hotel Industry

I have undertaken **Environmental Audits** for the following hotels and restaurants:-

- Coral Key Resort
- Lantana Galu Beach
- Lawfords Hotel
- Garoda Resort, Watamu,
- Aquarius Beach Resort, Watamu,
- Temple point Resort Watamu
- Galu Sea Lodge Resort, Diani
- Papilio Limited –Malindi
- Maasai Bars and Restaurants
- Travellers Beach Hotel and Club
- Victoria Beach Resort, Malindi
- Leisure Lodge Beach Resort, Diani
- Mwembe Resort, Malindi
- Royal Reserve Safari and Beach Club, Kikambala
- Che-Shale Resort Malindi;
- Kinondo Kwetu Resort Diani
- Sunset Paradise Apartments, Shanzu, Mombasa

UNDERGRADUATE STUDENT SUPERVISION

I have successfully supervised the following undergraduate students who were attachment in my office in the period 2013-2015.

1. Eshiamwata Antony – Pwani University Undergraduate student registration number **N36/PUC/0545/12** registered in the School of Agriculture and Environmental Sciences Department of Environmental Planning and Management. Period of attachment supervision 4th May 2015 to 7th August 2015.
2. Yeri Jonathan Katana - Jomo Kenyata University of Agriculture and Technology - Undergraduate student registration number **EN262-0739/2009** registered in the Department of Biomechanical and Environmental Engineering undertaking a Bachelor of Science degree in Soil, Water and Environmental Engineering. Period of attachment supervision 13th January 2014 to 8th March 2014.
3. Aded Kiumba – Kenyatta University- Undergraduate student registration number **N36/2770/2010** registered in the School of Environmental Studies, Department of Environmental Planning and Management undertaking a Bachelor of Science degree in

Environmental Planning and Management. Period of attachment supervision 6th May 2013 to 6th August 2013.

RESEARCH GRANTS AWARDED

- 2017 IFS/RUFORUM /SIDA/SLU Grant for postgraduate training in Science and Leadership for transforming institutions. Training undertaken by the Research School for Society, Landscape and Land Use at the Swedish University of Agricultural Sciences, Sweden and the University of Dar Es Salam, Tanzania.
- 2001 SIDA/Dept. of Rural Development Studies Grant for Field Course in Research Methods and Practice research work undertaken in Namibia.

PUBLICATIONS

Omenga, P. M 2002. The Role of Butterfly Farming in Forest Conservation and Community Development in Kenya. Department of Rural Development, Swedish University of Agricultural Science, Uppsala. ISSN 1403-7998
(http://s3.amazonaws.com/zanran_storage/www.sol.slu.se/Content)

OTHER ENGAGEMENTS

1. 2014-2015: **Chairman Strategic Planning** Deliverance Church Mt. Zion Worship Centre, Mombasa.
2. 2012-2013: **Chairman Men Fellowship** Deliverance Church Mt. Zion Worship Centre, Mombasa.

REFEREES

Dr. Paul Mutua Makenzi, PhD
Senior Lecturer and Chairman- UNESCO-AfriMAB and Kenya MAB Committee
Faculty of Environment and Resources Development,
Department of Environmental Science,
Egerton University
P. O. Box 422, 20115 Egerton, Kenya
Mobile: +254 - 724 675 219

Email: pmakenzi@yahoo.com or bmakeben@gmail.com

Gilbert O. O. Obwoyere (Dr.rer.nat)
Senior Lecturer and Dean Faculty of Environment and Resources Development,
Egerton University
P. O. Box 536, 20115 Egerton, Kenya
Mobile: +254-725-214-510

Email: gobwoyere@egerton.ac.ke OR gilobati@gmail.com OR Onacha2002@yahoo.com

Dr. George W. Eshiamwata, PhD

Lecturer Department of Natural Resources
Faculty of Environment and Resource
Development,

Egerton University

P. O. Box 536- 20115 Egerton, Kenya

Mobile: +254 - 723 812 990

Email: geshiamwata@egerton.ac.ke OR eshiamwatagw@yahoo.co.uk OR gweshiamwata@gmail.com

Mr. Hasmukh K. Patel

Director, Corrugated Group of Companies
P. O. Box 83594 80-100

Mombasa

TEL. 0202023860

Mobile. 0734759020

E-mail Hasu@nyumba.com;

csl@nyumba.com

CV: JAMES MORUMBASI MONG'ONI

CURRICULUM VITAE

J MORUMBASI MONGONI

(Safety and Health and Environment Expert & Practitioner)

PO BOX 53832, 00200, Nairobi, Kenya

Email: morumbasim@gmail.com

Tel: 0727334404

1. CORE COMPETENCIES

- i. Occupational Safety and Health (OSH) Practitioner
- ii. Environmental Impact Assessment Expert
- iii. Trainer in Occupational Safety and Health in the workplace
- iv. OSH Risk Assessment Expert
- v. Fire safety Auditor
- vi. Authorized Plant Inspector

2. EDUCATION

- Master Occupational Safety and Health, **MOSH**, 2013
International Center of the ILO and University of Turin (Turin, Italy)
- Master Business Administration, **MBA**, 2012
United States International University (USIU), Nairobi (in collaboration with Columbia Business School, NY) – Nairobi, Kenya (and NY)
- Postgraduate Certificate in Occupational safety and Health **Risk Assessment**, 2010
ISAC (UK) – Obtained at the International Training Center of the ILO in Turin, Italy
- Postgraduate certificate in **Environmental Impact Assessment**, 2004
Kenya Institute of Administration, Nairobi, Kenya
- Postgraduate Certificate on Advanced Information Processing, 1993
Kyoto School of Computer Science, Kyoto School Fellowship, Kyoto, Japan

- Postgraduate Certificate in **Occupational Safety and Health**, 1979
Imperial College London
- Advanced Course in Occupational Health and Safety, 1976
Higher Institute of Occupational Safety and Health ,Cairo, Egypt.
- Bachelor of Science in Mechanical Engineering, **BSc(Mech Eng)**, 1975
University of Nairobi, Kenya

3. RELEVANT EXPERIENCE

Description	Position
<p><u>Government of Kenya, Ministry of Roads.</u></p> <p>Working with ILO' Technical Cooperation Project within the Kenyan "Employment Intensive Investment Programme - Roads 2000 Strategy" and the Kenya Ministry of Roads in consultation with the Federation of Kenya Employers and the Central Organization of Trade Unions (in line with the national tripartite mechanism) developed the <i>Kenya Occupational Safety and Health Roads Sector Profile</i>, and the <i>Kenya Occupational Safety and Health Roads Sector Policy (2013/14 & 2016)</i>.</p> <p>This was achieved through a process:</p> <ul style="list-style-type: none"> ▪ Developing of instruments and tools ▪ Desk review of relevant materials ▪ Consultations and Interviews with key stakeholders including site visits for "rapid results assessment" ▪ Validation workshop with key stakeholders on draft reports and lists and submission of final reports to the Kenyan Department of Roads for adoption and the ILO 	<p>ILO Lead Consultant</p>
<p><u>Government of Kenya, Ministry of Labour.</u></p> <p>Working with ILO's International Programme on the Elimination of Child Labor (IPEC) and the Kenya Ministry of Labor in consultation with the Federation of Kenya Employers and the Central Organization of Trade Unions (in line with the national tripartite mechanism) developed the Kenya "<i>List of</i></p>	<p>ILO Lead Consultant</p>

<p><i>hazardous work for children” and “List of light work for children”. This was achieved through a process:</i></p> <ul style="list-style-type: none"> ▪ Developing of instruments and tools ▪ Desk review of relevant materials ▪ Consultations and Interviews with key stakeholders ▪ Validation workshop with key stakeholders on draft reports and lists and submission of reports to the Kenyan Department of Labor for adoption and the ILO 	
<p><u>Government of Rwanda Ministry of Public Service and Labour</u></p> <p>Elaboration of National Policy, Country profile and Specific Sector Regulations on Occupational Safety and Health at the workplace 2012.</p> <p>Part of the process in this assignment involved applying hazard assessment.</p>	<p>Deputy Lead Consultant with Consulting Team</p>
<p><u>Government of Somaliland</u></p> <p>Occupational Safety and Health Awareness Course for top policy makers in Hargeisa Somaliland (2012). An ILO project</p>	<p>ILO Lead Consultant</p>
<p><u>Government of Puntland</u></p> <p>Occupational Safety and Health Awareness Course for top policy makers in Garowe Puntland (2012). An ILO project</p>	<p>ILO Lead Consultant</p>
<p><u>Federation of Kenya Employers (FKE)/DANIDA</u></p> <p>Carried out Occupational Safety and Health Risk/Hazard Assessment on five sectors in Kenya: Sugar, Tea, Flower, Construction and SMEs.</p> <p>The report was used to prepare targeted training to workers.</p>	<p>Lead Consultant</p>
<p><u>Federation of Kenya Employers (FKE) (2009 - 2012):</u></p> <p>Working in a Danish International Development Agency (DANIDA) project in FKE as the occupational safety and health consultant:</p>	<p>Lead Occupational Safety and Health (OSH) Consultant and Chief Trainer</p>

<ul style="list-style-type: none"> • Developed an FKE training program on occupational safety and health for managers and workers in industry in line with the OSH Kenyan competent authority guidelines. • Developed OSH training materials for awareness OSH training for managers and for the prescribed OSH training for workplace safety committees. • Implementation of OSH training program: <ul style="list-style-type: none"> ○ Training of managers from industry on occupational safety and health. ○ Training of safety committees from industry in accordance with the mandatory OSH training requirements 	
---	--

<p><u>Sinclair Knight Merz:</u></p> <p>Olkaria II Geothermal Power Station Project, 2002/2003 (two years)</p> <ul style="list-style-type: none"> ▪ Overseeing and supervising Site occupational safety and health implementation by the contractor workers and all persons who may be on site. ▪ Coordinating the OSH implementation and observance of the five International Contractors on site. ▪ Carrying out hazard assessment for the project sites ▪ Making reports on OSH for the project sites ▪ Chairing OSH meetings for the contractor safety officers ▪ Reporting on OSH matters at the site meetings ▪ Organizing and carrying out OSH training for the project staff and contractor workers ▪ Spotting OSH non-conformity and remedying for continuous improvement on OSH ▪ Compliance assurance with national laws 	<p>Lead OSH Consultant & Occupational Safety and Health Coordinator</p>
--	---

<p><u>Howard Humphreys:</u></p> <p>East African Breweries Expansion Project in Nairobi, 2004 (Six</p>	<p>Lead OSH Consultant & Occupational Safety</p>
--	--

<p>months).</p> <ul style="list-style-type: none"> ▪ Overseeing and supervising Site occupational safety and health implementation by the contractor workers and all persons who may be on site. ▪ Coordinating the OSH implementation and observance of the five International Contractors on site. ▪ Carrying out hazard assessment for the project sites ▪ Making reports on OSH for the project sites ▪ Chairing OSH meetings for the contractor safety officers ▪ Reporting on OSH matters at the site meetings ▪ Organizing and carrying out OSH training for the project staff and contractor workers ▪ Spotting OSH non-conformity and remedying for continuous improvement on OSH ▪ Compliance assurance with national laws 	<p>and Health Coordinator</p>
---	-----------------------------------

4. FURTHER RELEVANT EXPERIENCE

- i. As a lead consultant, have done **hazard assessment, occupational safety and health audits, fire safety audits** for a number of firms including:
- ✓ Central Bank of Kenya, (with Howard Humphreys) Head Office and branches
 - ✓ The Boma Hotels, Nairobi
 - ✓ BRITAM, Head Office and branches countrywide
 - ✓ Spinners and Spinners (K) Ltd, Ruiru
 - ✓ Sea Harvest , Mombasa
 - ✓ Mitchell Cotts Freight, Mombasa and Nairobi
 - ✓ Kenfreight (EA) Ltd, Mombasa and branches countrywide
 - ✓ KENGEN Kipevu and Lamu
 - ✓ Bamburi Cement, Athi River
 - ✓ Dodwell and Company, Mombasa
 - ✓ Inccape Shipping Services, Mombasa
 - ✓ Fides Kenya, Embu
 - ✓ Tsavo Power, Kipevu 2 Power Station, Mombasa

- ✓ Welding Alloys, Nairobi
- ✓ Eldoret Steel Mills,
- ✓ Chemigas Ltd, Nairobi
- ✓ Eastern Flour Mills, Machakos,
- ✓ Eldoret Steel Mills, Eldoret.
- ✓ NAS Airport Services, Nairobi
- ✓ Ndovu Holdings Ltd, Nairobi

Plant Examination, test, certification and revalidation:

Chemigas Ltd:

Lifting machinery inspection; air receivers inspection; cylinders, LPG tanks revalidation.

Welding Alloys:

Cylinders revalidation.

Caltex Oil:

Cylinders revalidation, air receivers inspection/certification at service stations countrywide, LPG tanks revalidation at the depots

Shell Oil:

Air receiver inspection at service stations countrywide.

Mitchell Cotts Freight:

Lifting machines (Top Loaders and Forklift trucks) inspection and certification.

NAS Airport Services:

Air receivers inspection and certification; Lifting machines (High Loaders) inspection and certification.

Tsavo Power Co, Kipevu II Power Plant, Mombasa:

Steam boilers, air receivers, cranes

Singh Retread Ltd, Nairobi:

Steam boilers, air receivers, and cranes.

Eastern Flour Mills Ltd, Machakos

Air receivers

Sea Harvest Ltd, Mombasa

Air receivers, cranes

Ndovu Holdings Ltd, Nairobi.

Air receivers, and lifting equipment

As EIA Lead Expert have done Environmental Impact Assessments/Environmental Audits for a number of projects including:

Environmental Impact Assessment:

- ✓ Mombasa Cement Limited Athi River (Expansion, 2017)
- ✓ Mombasa Cement Limited Vipingo (Expansion 2015)
- ✓ Krystaline Salt Limited (Expansion of Marereni Salt Works 2014)
- ✓ Krystaline Salt Works Limited (Salt Refinery Gongoni, 2011)
- ✓ Mombasa Cement Limited Athi River (Expansion 2011)
- ✓ Mombasa Cement Limited Vipingo (2005)
- ✓ Mombasa Cement Limited Athi River (2005)
- ✓ Toyo Construction Limited Mombasa Port Development Project EIA for Temporary Yard, Toyo Construction Limited Mombasa Port Development Project – Environmental Monitoring (traffic, terrestrial flora, terrestrial Fauna and Marine (coral reefs and sea grasses),
- ✓ Mombasa Cement Limited Vipingo,
- ✓ Mombasa Cement Limited Athi River,
- ✓ Krystalline Salt Limited, Gongoni,
- ✓ Krystalline Salt Limited Marereni,
- ✓ Akshaldham Apartments Limited, Mombasa,
- ✓ Kopex Industries Limited Mombasa,
- ✓ Gurbir Singh, a five storey commercial building in Machakos Town. Project complete.

Environmental Audits:

- ✓ Chemigas Limited, Nairobi
- ✓ Eastern Flour Mills, Machakos
- ✓ Singh Retread, Nairobi
- ✓ Capital Fish, Homa Bay
- ✓ Fides Kenya Ltd, Embu
- ✓ Bamburi Cement, Athi River

5. PROFESSIONAL DEVELOPMENT/TRAINING AND PRACTICAL EXPERIENCE

i) Practical Engineering Training (Pressure Vessels and Lifting Appliances) done in UK, Confederation of British Industry fellowship: 1978

- ✓ Design, installation, maintenance of lifts, hoists escalators and travolators in London, Liverpool and Brighton with Otis UK
- ✓ Technical inspection of cranes and other lifting machinery; steamboilers and other pressure vessels with HM Factory Inspectors in London
- ✓ Technical surveys, non-destructive and destructive testing of plant and equipment with British Engine for certification and insurance in Manchester
- ✓ Technical inspection of lifting machinery and equipment at Aberdeen and the North Sea oil rigs

ii) Technical Inspection (Plant and Machinery) and Occupational Research in Finland, Finnish Government Fellowship

- ✓ International seminar on occupational health at Eespoo Finland
- ✓ Organization of occupational safety and health services in Finland at the Labor Inspectorate Department in Tampere
- ✓ Inspection of pressure vessels and lifting machinery with Finnish Government Factory Inspectors in Helsinki, Tampere, Turku and Kuopio.
- ✓ Visit to the Kone factory to see production of lifts and other lifting machinery, and to familiarize with their quality assurance systems
- ✓ Type testing of lifting machinery and electrical machinery and equipment with Finnish Labor Inspectorate and Machinery Testing Centre

iii) Advanced Course on Information Processing Education Japan, Kyoto School of Computer Science, Kyoto School Fellowship.1993

- ✓ Introduction to Information Technology
- ✓ Introduction to computer software
- ✓ Introduction to computer hardware

iv) International Top Management Seminar on Quality Leadership, Stockholm, Sweden – Swedish Government Fellowship -1994 June

- ✓ TQM for chief executives

6. WORK HISTORY

1. Certified Practitioner (Occupational safety, health and environment) 1989 to Current

Certifications; Licensed and registered by:

i) The Directorate of Occupational Safety and Health Services of the Ministry of Labor as

- **An Occupational Safety and Health Adviser (Auditor)**

- Carrying out statutory occupational safety and health audits in workplaces for compliance and to advise and assist firms to comply.

- **A Fire Safety Auditor**

- Carrying out fire safety audits at workplaces for compliance and to advise and assist firms to comply.

- **An Authorized Inspector for Pressure Vessels and Lifting Appliances (since 1984)**

- Carrying out examination, test and certification of steam boilers, air receivers, cylinders for compressed/dissolved gases, LPG cylinders

- Carrying out examination, test and certification of lifts, hoists, cranes and other lifting machines

- **A competent OSH trainer.**

ii) The National Environment and Management Authority as

- **A Lead Expert EIA/EA : 2004- 2018**

- Carrying out Environmental Impact Assessments for new projects and Environmental Audits for existing projects and enterprises.

2. Senior Inspector of Factories at the Ministry of Labor 1982 to 1990

- Set up the Engineering Section within the Factories Inspectorate of the Department of Labor Kenya to oversee the safety and health aspects of the use of pressure vessels, lifts and lifting appliances in workplaces in Kenya.

- Supervised the work of government authorized plant examiners and put in place and maintained documentation on the number and condition of plant inspected.

- Developed, organized and implemented training workshops for the authorized plant examiners.

3. Inspector of Factories at the Ministry of Labor Kenya, 1975 to 1982

- Inspection of workplaces for compliance as per the Occupational safety and Health Act Kenya.
- Instituted legal proceedings against some workplaces for contravening the requirements of the Occupational Safety and Health Act.
- Carried out occupational safety and health training for managers and workers at some workplaces.

CV: HEZEKIAH ADALA

CURRICULUM VITAE

A. Personal Details

Name of Staff:	Hezekiah Adala			
Proposed Position	EIA/EA Lead Expert, Engineer, OSH Practitioner and Team Member			
Nationality:	Kenyan			
Date of Birth:	March, 1966			
Profession	Environment Engineer			
Nationality: Kenyan	Years of professional experience 11			
Education:	<i>September 1997-Jan 1998: Coventry Management Training Centre Warwickshire, England</i> <ul style="list-style-type: none"> • Postgraduate Certificate in Environmental Management • Postgraduate Certificate in Occupational Safety and Health <i>1987-1990: University of Nairobi</i> <ul style="list-style-type: none"> • Bachelor of Science in Mechanical Engineering 			
Membership of Professional Associations	<ul style="list-style-type: none"> • Corporate Member of Environmental Institute of Kenya EIK • Associate Member of the Institution of Environmental Management and Assessment, AIEMA (UK) • Associate Member of the Institution of Occupational Safety and Health, IOSH (UK) • Graduate Member of the Institution of Engineers of Kenya 			
Other Training / Accreditation	<ul style="list-style-type: none"> • Lead EIA/EA Expert, National Environment Management Authority, NEMA. • Safety Adviser, Directorate of Occupational Health and Safety Services, DOHSS 			
Languages:		Speak	Read	Write
	English	Excellent	Excellent	Excellent
	Kiswahili.	Good	Good	Good
Employment Record	<i>From 2000 To Present: Heztech Engineering Services</i> <i>Position held: Principal Consultant</i> <i>1998 To 2000: Bamburi Cement Limited</i> <i>Positions held: Environment Engineer</i> <i>1995 To 1998: SmithKline Beecham Pharmaceuticals Ltd</i> <i>Positions held: Environment and Safety Manager</i> <i>From 1993 To 1996: Van Lee: East Africa Ltd</i> <i>Positions held: Production Engineer/Safety Officer</i>			
Relevant experience				
Project No. 1	Name of assignment or project: Strategic Environmental Assessment (SEA) for the Development of Mombasa Gate City Master Plan Year: 2015- April 2017 Location: Mombasa, Kenya Client : JICA / County Government of Mombasa Main Project Features: Development of a Comprehensive Master Plan for Mombasa Gate City for the period 2015 - 2040 Activities Performed: Preparation of Strategic Environmental Assessment			

	Report
Project No. 2	<p>Name of Assignment: Environmental and Social Impact Assessment and Resettlement Action Plan for Construction of the First Berth and Access Road for Mombasa SEZ Development</p> <p>Year: Ongoing</p> <p>Location: Mombasa, Kenya</p> <p>Client : JICA / KPA</p> <p>Main Project Features: Construction of the First Berth and Access Road for Port Infrastructure of the Mombasa SEZ Development</p> <p>Activities Performed: Preparation of Environmental and Social Impact Assessment Study Report and RAP Report</p>
Project No. 3	<p>Name of assignment or project: Environmental and Social Impact Assessment for Rehabilitation of Berths 1-14 at KPA, Mombasa</p> <p>Year: Ongoing</p> <p>Location: Mombasa, Kenya</p> <p>Client: Trade Mark East Africa / KPA</p> <p>Main Project Features: Rehabilitation of berthing structures, Dredging of docking areas around the berths and Land Reclamation to create additional container storage areas.</p> <p>Activities Performed: Preparation of Environmental and Social Impact Assessment Study Report</p>
Project No. 4	<p>Name of assignment or project: Environmental and Social Impact Assessment of the Proposed First 3 berths of Lamu Port at Manda Bay</p> <p>Year: August 2012 – Date</p> <p>Location: Lamu, Kenya</p> <p>Client: Ministry of Transport</p> <p>Main Project Features: Construction of the First 3 Berths and Associated Infrastructure</p> <p>Positions held: Team Leader, Environment Engineer and Occupational Safety and Health Adviser</p> <p>Detailed Tasks Assigned: Preparation of Environmental and Social Feasibility Study Report and EIA Project Report.</p> <p>Reference: Mr. Norihiko Ibuki, Project Coordinator Japan Port Consultants Tel +254-719-432928</p>
Project No. 5	<p>Name of assignment or project: Environmental and Social Impact assessment for the Proposed Kipevu West Container Terminal for Kenya Ports Authority, KPA.</p> <p>Year: 2006 - 2007</p> <p>Location: Mombasa, Kenya</p> <p>Client: Kenya Ports Authority; Project financed by the Japan Bank for International Cooperation, JICA</p> <p>Main project features: Construction of 3 berths and associated infrastructure consisting of the access road, offices and container yards.</p> <p>Positions held: Team Leader, Environment Engineer and Occupational Safety and Health Adviser</p> <p>Detailed Tasks Assigned: Preparation of Environmental Impact Assessment Study Report.</p> <p>Reference: Mr. Julius Maghanga, Health Safety & Environment Manager KPA Tel +254-41-2112999</p>
Project No. 6	<p>Name of assignment or project: Environmental and Social Impact Feasibility Study for the Proposed Offshore Jetty in Pungu area, Mombasa (Subcontracted by Alatec S.A. of Madrid, Spain)</p> <p>Year: 2012 – 2013</p>

	<p>Location: Mombasa, Kenya Client: National Oil Corporation of Kenya, NOCK Main project features: Construction of an offshore offloading jetty (SBM) and mooring facilities, an onshore storage depot, submarine pipelines connecting the storage depot to the SBM Positions held: Team Leader, Environment Engineer and Occupational Safety and Health Adviser Detailed Tasks Assigned: Preparation of Environmental and Social Assessment Feasibility Study Report. Preparation of Compensation Action Plan for Project Affected Persons Reference: Mr. Job Muthoka Operations Manager NOCK Tel +254-20-6952000</p>
Project No. 7	<p>Name of assignment or project: Environmental and Social Impact Assessment for the Dredging of the Access Channel at the Port of Mombasa for Kenya Ports Authority, KPA. Year: 2007 - 2008 Location: Mombasa, Kenya Client: Kenya Ports Authority. Project financed by the Government of Belgium Main project features: Maintenance and Capital dredging of the access channel Positions held: Team Leader, Environment Engineer and Occupational Safety and Health Adviser Detailed Tasks Assigned: Environmental and Social Impact Assessment. Preparation of Compensation Action Plan for affected fishermen Reference: Mr. Julius Maghanga, Health Safety & Environment Manager KPA Tel +254 41-2112999</p>

CV: BEATRICE MINOO NGUTI

CURRICULUM VITAE

PERSONAL DETAILS

NAME: Beatrice Minoos Nguti
NATIONALITY: Kenyan
ID NO: 5476505
DATE OF BIRTH: 14th February 1947
MARITAL STATUS: Married
CONTACTS: P.O Box 84950 – 80100, Mombasa
CELL PHONE: 0722-737890

MOTTO

To be the best I can be in any field I engage in.

PROFESSIONAL TRAINING & QUALIFICATIONS

20TH APRIL 2009: Registered as Environmental Impact Assessment Expert (Associate Expert, **Registration No.1848**) by the National Environment Management Authority.

9TH – 27TH JUNE 2008: Environmental (Impact Assessment and Audit) Course: Kenya National Cleaner Production Centre, Nairobi.

MARCH 2002: HIV/Aids and Substance Abuse Counselling: Kenya Institute of Professional Counselling.

JAN.1993 – DEC 1993: Entrepreneurship Education: Training of Trainers: The Mombasa Polytechnic.

1970 – 1973: Concurrent Diploma in Education: Makerere University, Kampala, Uganda.

ACADEMIC QUALIFICATIONS

1970 – 1973: Bachelor of Arts Degree (**Geography and History**): Makerere University, Kampala, Uganda.

1968 – 1969: G.C.E Advanced Level: Alliance Girls' High School, Kikuyu.

1964 – 1967: G.C.E Ordinary Level:

		(NEMA/CP/PR/1/1/1286).	
10.	Proposed Assembly Unit for Consumer Electronics on Plot No. Mombasa/Block XXII/51. (EIA)	Srisaila Limited, P.O. Box 80800-80100 Msa. (NEMA/CP/PR/1/1/1586).	Ganjoni, Mombasa County.
11.	Italian Gelati & Food Products Ltd. on Plot No. XLVIII/40. (Initial Environmental Audit and subsequent annual audits to date)	Italian Gelati & Food Products Ltd. P.O. Box 99909 - 80107 Msa (NEMA/EA/MSA/5/2580).	Liwatoni, Mombasa County.
12.	Proposed Italian Pasta Manufacturing Unit on Plot No. 5320, Mombasa North Mainland. (EIA)	Cavalier & Company Limited. P.O. Box 1590 – 80200 Msa. (NEMA/MSA/PR/1739).	Shanzu, Mombasa County.
13.	Initial Environmental Audit on Existing Well on part of Plot No. MSA/384/MN, Majaoni Scheme.	Sammy S. Kimeuh P.O. Box 2544 – 80100 Msa. (NEMA/EA/MSA/5/2/0649).	Majaoni Scheme Mombasa County.
14.	Initial Environmental Audit on Wire Products Making Plant on Plot No. MN/VI/2543, Changamwe.	Jumbo Wire Products Ltd. P.O. Box 94040 - 80100 Msa. (NEMA/EA/MSA/5/2/0561).	Changamwe, Mombasa County.
15.	Proposed Residential Development (of Fourteen Apartments in One Block) on Plot Portion No.XI on Plot No. 8610 SECI MN V.O.K, Msa. (EIA)	Thomas Amani Kalama P.O. Box 440 – 80100 Msa. (NEMA/PR/MSA/5/2/3494).	V.O.K – Frere Town area, Mombasa County.
16.	Proposed Development of a New Church Building on Plot No. 3431/VI/MN, Changamwe. (EIA)	New Horizon Church P.O. Box 93135, Mombasa. NEMA/PR/MSA/5/2/3687).	Changamwe, Mombasa County.
17.	Proposed Residential Development of Twelve Bedsitters in One Block on Plot No. 204, Ziwa la Ng'ombe Settlement Scheme, Bombolulu. (EIA)	Philip Kilenge Mutinda P.O. Box 440 – 80100 Msa. (NEMA/PR/MSA/5/2/3901).	Ziwa la Ng'ombe Settlement Scheme, Bombolulu area Mombasa County.

No.	Name of the Project	Project Proponent	Location
1.	Proposed Expansion of Mombasa Cement Limited, Athi River Unit (EIA)	Mombasa Cement Limited (NEMA/EIA/5/2/1408)	Athi River, Machakos County.
2.	Proposed Development of Five Apartments on Plot No. MN/1/8334. (EIA)	Daniel M. Nzeki P.O. Box 460 – 80100 Msa. (NEMA/CP/PR/1/1/0575)	Bamburi, Mombasa County.
3.	Proposed Development of Eight Flats on Plot No. 9559/1/MN. (EIA)	M/S Fourfold Holdings Ltd. P.O. Box 81339 – 80100 Msa. (NEMA/CP/PR/1/1/0654).	Nyali, Mombasa County.
4.	Proposed Development of Twenty Small Family Apartments on Plot No. 1141/XVI/MI. (EIA)	Mazrui Saleh & Others P.O. Box 98385 – 80100 Msa. (NEMA/CP/PR/1/1/0678).	Guraya-Majengo, Mombasa County.
5.	Proposed Building Extension on Plot Sub – Division No. (18)/XVIII/MI. (EIA)	Nassir Saleh Nassir Said P.O. Box 98416 – 80100 Msa. (NEMA/CP/PR/1/1/0710).	Sparki-Majengo, Mombasa County.
6.	Proposed Development of Six Apartments on Plot No.13400/1/MN. (EIA)	Rukhsana Shaukat Hussein P.O Box 85287 – 80100 Msa. (NEMA/CP/PR/1/1/0816).	Links Road, Nyali, Mombasa County.
7.	Socio-economic Baseline Report on the Proposed Mining of Niobium and Rare Earth Elements at Mrima Hill (SLP 256). (Part of EIA Project Study)	M/S Cortec Mining, Kenya (Pty) Ltd. P.O. Box 761, Wendy wood 2144, South Africa. (NEMA/EIA/794).	Mrima Hill, Dzombo Location, Msambweni, Kwale County
8.	Proposed Temporary Yard on Land Parcel No. 247. (EIA)	Toyo Construction Co. Ltd., Mombasa Port Development Project, P.O. Box 81737 – 80100 Msa. (NEMA/CP/PR/1/1/1227).	Dongo Kundu, Likoni, Mombasa County.
9.	Proposed Temporary Yard on Land Parcel No.MN/VI/502. (EIA)	Toyo Construction Co. Ltd., Mombasa Port Development Project, P.O. Box 81737 – 80100 Msa.	Changamwe, Mombasa County.

Machakos Girls' High School, Machakos.

1954 – 1963:

K.A.P.E

Mukaa Primary School, Machakos.

WORK EXPERIENCE

MAY 2009 – TO DATE, 2018: Consultant in Environmental Impact Assessment / Au

2003 – 2009: Consultant in Writing of Business Plans at Beamlink Ventures.

1992 – 2003: Senior Lecturer in Entrepreneurship Education, Social Studies and Communication Skills, The Mombasa Polytechnic.

1988 – 1992: Deputy Head Mistress, The Aga Khan High School, Mombasa.

1984 – 1992: Head of Geography and Teacher of Geography and History, The Aga Khan High School, Mombasa.

1973 – 1983: Head of Geography and Teacher of Geography and History, Allidina Visram High School, Mombasa.

HOBBIES

1. Conservation of the Environment.
2. Travelling.
3. Reading, especially on new advances in Technology.

REFEREES

1. **PHILIP M. OMENGE**

Environmental Lead Expert, Registration No. 1559
P.O Box 569 – 80100, Mombasa; Tel. 0722-493772

2. **ANDREW MUNYUA MWENGA**

Environmental Lead Expert, Registration No. 0340
P.O Box 3407520 – 80118, Mombasa; Tel. 0722-313180

Environmental Impact Assessment/Environmental Audit (EIA/EA) Projects successfully conducted to date:

CV: JONNATHAN KATANA YERI

JONNATHAN KATANA YERI**Phone no:** +254 719 579 828**Email:** jonathanyeri89@gmail.com**PROFILE**

I am passionate about the environment, and sustainable development. I have valuable experience in the field of Environmental and Social Impact Assessments, Environmental Audits, Environmental Monitoring and Sustainable Development. My five years undergraduate training in Soil, Water and Environmental Engineering coupled with my hands on work experience as an EIA/EA Expert have strongly confirmed environmental management, and sustainable development as the career of choice for me. I have undertaken projects involving Environmental Impact Assessments, Environmental Audits and Monitoring in various sectors among them: Manufacturing, Urban Development, Housing Sector, Hotel Sector, Government Sector and Donor Funded Projects. My work experience has helped me hone my research, data collection and analysis, situational analysis, stakeholder engagement and project management skills.

PERSONAL INFORMATION

NAME	:	Jonnathan Katana Yeri
SEX	:	Male
NATIONALITY	:	Kenyan
NATIONAL ID NO.	:	27922743
DATE OF BIRTH	:	20/06/1989
MARITAL STATUS	:	Married
ADDRESS	:	P.O BOX 569-8010 Mombasa
PHONE NO.	:	+254 719 579 828
LANGUAGES	:	English, Kiswahili, Giariama

PROFESSIONAL QUALIFICATION

2018: Licensed to Practice as an Environmental Impact Assessment/Audit Associate Expert by NEMA.

2017: Licensed to Practice as an Environmental Impact Assessment/Audit Associate Expert by NEMA.

February 2016: Registered Environmental Impact Assessment/Audit Associate Expert by NEMA.

MEMBERSHIP TO PROFESSIONAL BODIES

2018: Member Environment Institute of Kenya.

2017: Member Environment Institute of Kenya.

EDUCATION BACKGROUND

- 1. Bachelor of Science Degree in Soil, Water and Environmental Engineering:** (Second Class Honour Upper Division)-Jomo-Kenyatta University of Agriculture and Technology. May 2010- July 2015.
- 2. Certificate in Office Automation:** (Distinction)-DATA NETWORKS INSTITUTE (DNS). 30th March-12th June 2009.
- 3. Kenya Certificate of Secondary Education (KCSE):** Mean Grade A minus (-); Jaribuni Secondary School; 2005-2008
- 4. Kenya Certificate of Primary Education (KCPE):** (Marks 371/500), Kibaokiche Primary School; 1997-2004

RELEVANT WORK EXPERIENCE**Sigtuna Consultancy Limited: EIA/EA Associate Expert (January 2017 to present)**

Assisting the Lead Environmental Impact Assessment/Audit Expert of the Firm in various projects being undertaken. Areas involved would include project surveys, data collection, document review, and stakeholder engagements, preparing reports of feedback from stakeholder engagements, preparation of reports; among them environmental impact assessment projects, environmental audit reports, and environmental monitoring reports among others. In addition, am also involved in project activities within the full project cycle i.e. project identification/preparation/design, tender preparation, implementation management, coordination, financial management and administration, monitoring and evaluation of projects and studies and reporting to project partners.

Sigtuna Consultancy Limited: Volunteer (March 2016 to December 2016)

Engaged in the conducting of environmental audits of on-going projects, environmental impact assessments for proposed development projects, management of activities within the full project cycle i.e. project identification/preparation/design, tender preparation, implementation management, coordination, financial management and administration, monitoring and evaluation of projects and studies and reporting to project partners, environmental monitoring for ongoing development projects, preparation of reports on EIA, EA and environmental monitoring, client and partnership management i.e.

maintaining and establishing networks and professional relationships with individual experts and clients.

Sigtuna Consultancy Limited: Intern (August 2015 to February 2016)

Conducting of environmental impact assessments for proposed development projects, environmental audits for ongoing projects, and environmental monitoring as part of implementation of environmental monitoring and management plans for ongoing projects and preparation of reports on EIA, EA and Environmental Monitoring.

Sigtuna Consultancy Limited: Attachee (January 2014 to March 2014)

Involved in conducting of environmental impact assessments for proposed development projects, environmental audits for ongoing projects, environmental monitoring as part of implementation of environmental monitoring and management plans for ongoing projects and preparation of reports on EIA, EA and Environmental Monitoring.

Mombasa Water & Sewerage Company: Attachee (JANUARY 2013-APRIL 2013)

Involved in field surveys for water and sewer lines in housing developments, repairs for damaged lines, familiarizing with sewage treatment and conducting laboratory testing of effluent for BOD, COD, Total Solids, Chlorides and Nitrates.

Jomo Kenyatta University of Agriculture and Technology: Internal Attachment (MARCH 2012-APRIL 2012)

Acquired practical knowledge of basic engineering concepts through working in a variety of workshops in welding, foundry, plumbing, masonry, machinery and surveying.

OTHER WORK EXPERIENCE

Mangawani Secondary School: Teaching Assistant (AUGUST 2009-May 2010)

- Teaching (Mathematics, Physics, History and Kiswahili)
- Games Master - Organizing and Coordinating students for sports activities

COMPUTER PROFICIENCY

- Ms Office: Word , Spreadsheets and PowerPoint
- Operating system(Windows)

INVOLVEMENTS

SEPTEMBER 2010 to Present: Member of the Society for Agricultural and Biosystem Engineering Students.

REFEREES

Name	Organization	Position	Contact Info
Dr.(Eng.)James Raude Messo	Jomo Kenyatta University of Agriculture & Technology	Lecturer	P.O Box 62000-00100 - Nairobi. Phone: +254722617042 Email: ramesso@jkuat.ac.ke
Bishop Elias Karisa Neko	Jesus Generation Crusadors Mission	Pastor	Phone: +254729682506
Philip Manyi Omenge	Sigtuna Consultancy Ltd	CEO	P.O Box 539-80108, Mombasa, Kenya. Phone: +254722493772 Email: philiomenge@yahoo.com