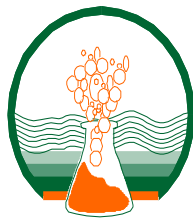


ENVIRONMENTAL
&
CHEMICAL SERVICES
LIMITED
COMPANY PROFILE



POLLUTION CONTROL & MANAGEMENT CONSULTANTS

HEAD OFFICE: FLAT 13, CHINDA ESTATE, BY RSUST MAIN GATE
MILE 3 DIOBU, PORT HARCOURT.

08033384134, 08023650953,

BRANCH OFFICES: 69 ODUKPANI STREET, ESSIEN TOWN,
CALABAR, 087-235553;



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1.0 INTRODUCTION

Environmental & Chemical Services is a totally independent company offering consultancy, Monitoring and analyses in all aspects of occupational hygiene and environmental pollution/waste management.

The company was founded in 1998 as an enterprise and has grown steadily to its present size with two regional offices located at Port Harcourt and Calabar.

In the process of managing a wide range of workplace and environmental problems, we have developed expertise in five major areas:

- Occupational hygiene
- Environmental assessments
- Waste management
- Soil remediation
- Laboratory analysis and
- Quality assurance

We work extensively with both private and public sector clients and are accustomed to dealing with the sensitive issues which can arise in the course of occupational hygiene and environmental pollution investigation. Since we have no financial or other commitment with contractors, developers, manufacturers or government authorities, we are particularly suited to providing independent, impartial advice based on objective scientific assessment of a situation.

Each contract, large or small, is handled by a project manager who can call on a multi-disciplinary team of specialists to conduct large scale investigations when required.

E&CS LTD. IS ACCREDITED BY THE

- Department of Petroleum Resources and the
- Federal Ministry of Environment
- National Environmental Standards and Regulations Enforcement Agency
- NOSDRA
- Rivers State Ministry of Environment
- Cross River State Ministry of Environment



As an environmental consultancy and waste management Consultant to strengthen our competitiveness and enhance our expertise we have a technical and scientific collaboration with the Institute of Pollution Studies, University of Science and Technology, Port Harcourt, Metaspec Consult Limited, International Energy Services Ltd and Fugro Consultant Nig Ltd Port Harcourt.

Ours is an excellent team of experienced professionals who have acquired the necessary expertise working for the regulators i.e. governments, the industries and the universities. We are adequately positioned so as to assist our clients meet their environmental objectives in a very efficient and business like manner. E&CS Ltd develops excellent business relationship with clients and attends to their environmental problems with the required dispatch and professionalism.

1.1 MISSION AND VISION STATEMENT

1.1.1 Mission

Our mission is to provide services of superior quality and value that best meet the needs and demands of our clients and conform to the Best Available Professional Practices (BAPP).

We will achieve this mission through a focused organization with an auspicious working environment that attracts the best and finest people, develop and challenges individual expertise, encourages free and spirited collaboration and interaction between professionals of different disciplines. Ours is an establishment with a record of performance and integrity.

1.1.2 Vision

E&CS Ltd. is a growing company that is dedicated to excellence in environmental management. We are committed to providing the best environment for our clients so that they can pursue their business goals unencumbered by environmental problems.

E&CS LTD. Is poised to be one of the best environmental companies in the country, a leader and pacesetter in the business. We will provide services and products that meet or exceed the needs and demands of our clients. We will relentlessly pursue continuous improvement and innovation in every thing we do keeping in touch with the latest



advance in the field to create significant competitive advantage comparable to international standards.

2.0 **PROFICIENCY**

2.1 **OCCUPATIONAL HYGIENE**

Occupational hygiene is concerned with the recognition, evaluation and control of health hazards in the workplace. Our staff have extensive experience in both the traditional areas of occupational hygiene within industry, and the investigation of occupational health matters with office environments. Staffs available are qualified and experienced at dealing with: Chemical agents such as dust, gases, vapours, fume and mist; Physical agents such as radiation, lighting, temperature, noise, biological agents such as air/water-borne micro-organisms, pest and rodents.

Assessment of the Problem

Occupational hygiene reviews are conducted to identify health hazards (chemical, physical, biological, ergonomic, psychological) and specify the work required to evaluate the risks, or to advise the client on action required to comply with specific legislation such as the control of Substances Hazardous to Health Regulations, or the Noise at Work Regulations federal Ministry of Environment (FMENV)

FMENV Regulations require that employers make an assessment of the health risks arising from work with hazardous substances in order to identify the measures required to comply with the regulations and the risks.

Having identified the work required, Environmental & Chemical Services Limited will assist with implementing any or all of the recommendations including monitoring, sample analyses, training and follow up assessments.

Surveys and Monitoring

The exposure of individuals to specific hostile agents in the work place is measured and the effectiveness of existing control measure is assessed.



Advice on Control Measures

Monitoring can be conducted to enable employers to demonstrate compliance with Maximum Exposure Limits and Occupational Exposure Standards.

We provide advice on the measures necessary to control health risks and help implement these measures. Control may be achieved by engineering means, use of personal protective equipment, procedural changes or a combination of these.

Training

We can help with training in a variety of ways from providing information and training packages for clients' own staff to presenting lectures or small group workshops. Also we can develop and conduct environmental awareness programmes to meet clients needs.

Audits

For those with established occupational hygiene programmes we can conduct independent occupational hygiene audits, addressing both management issues (e.g. policy, procedures, responsibility, communications, etc.) and technical issue (e.g. local programmes adequate to recognize, evaluate and control potential health risk?).

Expert Witness

Senior consultants in our group are experienced in the capacity of expert witness in litigation (e.g. claims for compensation due to occupational illness and environmental pollution) or any other formal inquiry.

Research Projects

Environmental & Chemical Services Limited have been commissioned by public companies to research topics ranging from pest /rodent infestation, Biological Nutrient Removal of pollutants in waste water, to indoor air quality in their industries



2.2 ENVIRONMENTAL ASSESSMENTS

Environmental & Chemical Services Ltd, environmental specialists have extensive experience in the assessment, analyses and control of a wide range of chemical, physical and biological agents in the external environment.

Consultants are qualified and experienced in dealing with: Environmental Impact Assessment (EIA) Environmental Audits, Environmental Evaluation Report (EER), Post Impact Assessment (PIA) etc

Identification of the likely effects of new developments for the purpose of planning inquiries or in preparation for presenting new proposals to government bodies, planning departments or industrial or neighborhood communities.

Air Pollution Modeling

Prediction of air pollution levels utilizing air modelling techniques for many points, line and area source emissions.

Air Quality

Air quality and process stack emission analyses, with subsequent recommendations and supervision of control measures, ambient air quality monitoring and roadside monitoring of vehicular pollutants.

Air Monitoring and stack emission measurement

In conjunction with our supervision of special waste removal we can undertake stack monitoring, provide expert report of pollutants entrained in the stack emission.

Water Quality

Water Quality and process effluent analysis and recommendations on water treatment regimes. This includes ground water studies.



Contaminated Land

Identification and evaluation of the degree of pollution on site. This commences with the initial site appraisal, analyses, through to subsequent proposals for remedial action and supervision of remedial site work.

Hazardous/Special Waste

Hazardous/Special Waste handling and disposal, (recommendations and supervision). This is a field where technology is developing along with public perception of the need for effective waste management. Originally limited to crude landfill, methods have come to include controlled landfill, neutralization and incineration.

The latest approach is to consider whole processes concentrating on waste minimization or “clean technology” and avoiding “end of pipe” solutions.

Noise and Vibration:

Environmental noise and vibration measurements and assessment of nuisance and disturbance. Prediction of noise and vibration impacts and design of remedial measures.

Radiological Protection

Radiological protection from baseline monitoring of soil, water, crop and foodstuffs. As much as anything, regular monitoring can give positive assurance where there is negligible effect; without these figures local concern could lead to unmanageable public pressures.

Corporate Environmental Audits

- To identify all potentially dangerous emissions to the ENVIRONMENT (air, water, or solid waste) and comment on control strategies and compliance with current legislations.
- To evaluate the effectiveness of the company's environmental management



2.3 WASTE MANAGEMENT

Project Management

The complete handling of waste management from original identification, recommending remedial action, writing technical specifications, obtaining competitive tenders, monitoring work progress and compliance with current HSE Guidance and Legislation to final clearance testing.

We are often involved on behalf of clients in discussions with Regulatory enforcement officers, environmental Health Officers, and agencies, thus ensuring the smooth running and successful completion of hazardous and special waste removal programme .

Upon successful completion of special waste removal we will inspect the decontaminated enclosures, and issue clearance certification. All analyses can be carried out on site to ensure immediate response to any potentially hazardous situations.

Special Waste Property Register and Acquisition Surveys

The location and condition of special waste materials will be determined, and a report will be compiled showing the inspection details of each site with appropriate recommendations.

Assessments

These will be conducted to ensure compliance with the control of Hazardous Waste regulations (FEPA, 1987).

Litigation

Preparation of evidence for court hearing, expert witness service, staff training, environmental awareness, health and safety, waste disposal and decontamination procedures.



2.4 LABORATORY ANALYSES

We offer support to those carrying out monitoring and sampling exercises in occupational hygiene and environmental pollution. These services include:

Analyses and Interpretation

Samples are analyzed using standard methods, and the results compared with relevant current standards. More detailed interpretation and advice on remedial measures can be provided in conjunction with E&CS specialist consultants.

Method Development

Existing methods can be adapted to suit unusual sampling conditions and methods can be validated to ensure meaningful results. Where a suitable method does not exist, a sampling and analytical method can be developed.

Advice on sampling and analysis

Advice on sampling methods, sample preparation and analyses can be provided by analytical chemists.

Training

Out of station or in-house training can be organized.

Provision of a Chemist on Site

For some projects e.g. field trials, a chemist can be provided to analyze samples in the client's lab using E&CS or client's instruments.

Expert Witness

This service is automatically available for all of the assays undertaken by us.

2.5 QUALITY ASSURANCE



E&CS is vigilant in maintaining high standards. Analysts from our two state offices participate in a vigorous internal Quality control scheme every 3 months. In addition, the company has technical working agreements with accredited consultants and laboratories such as International Energy Services Ltd, Fugro Consultants, Jawura Environmental Services and Institute of Pollution Studies, Rivers state University of Science & Technology.

Standard Procedures

The in-house systems manual specifies that results and reports are submitted for review by another competent person to ensure consistency and accuracy.

Consultancy Services

Organizations wishing to gain FMENV accreditation utilize our consultants' expertise and to this end several other companies take part in our own quality control schemes.

3.0 MAJOR CLIENTS

- ITS Drilling Services Ltd. , PH
- United Cement Co. Ltd
- TEAM Nig Ltd, Abuja
- Eleme Local Government Council. Rivers State.
- Rivers State Government
- Federal Ministry of Transport
- Federal Ministry of Petroleum Resources
- Indorama Eleme Petrochemicals, Eleme.
- OIS Indorama Ports Ltd
- Indorama Eleme Fertilizer and Chemicals Ltd
- Indorama Pet (Nig) Ltd
- Indorama Venture Packaging (Nig) Ltd
- Tennaris Global Services Ltd



- Orlean Invest West Africa Limited Onne
- Best Work Inspection and Projects Ltd, P.H
- Eastern Bulkecm Co. Ltd Rumuolumeni Port Harcourt
- Nigerian Ports Authority
- Atlas cement Co. Ltd. Onne-Eleme
- Frazimex Engineering Ltd, Port Harcourt
- Greater Port Harcourt Development Authority
- Rivers State Ministry of Environment
- Ibeto cement Co. Ltd. PH

3.1 Key Admin Staff

Olu Andah Wai-Ogosu	MD/CEO
Edem Andah	Legal Director
Gift Osarobey	Business Development Officer
Nwachukwu Solomon	Admin Secretary

Key Consulting Partner

Mr. Wale Adeyemi	Quality/Management Systems
Prof. T.K Abam	Geotechnics
Dr. R. Offiong	Ecology
Dr Chris Anyanwu	Health
Kingsley Nwogbidi	Remediation

Technical Partnership

Metaspec Consult Ltd
GS Environmental Solutions Inc. Texas USA
International Energy Service Ltd
Jawura Environmental Services Ltd
Emmaculate Clinic

Professional Permits

FMENV
DPR



RSMENV
CRSMENV
NESREA, NOSDRA

Company Policy

Workmen Compensation
Group Life Insurance

4.0 EXECUTED PROJECTS

Occupational Hygiene

- Indoor Air quality Monitoring, Product Handling Unit of NAFCON, Onne.
- Fumigation and rodent extermination at Mobil Producing Nigeria Unlimited, BRT, Bonny.
- Fumigation and rodent extermination at Eastern Bulkcem Co. Ltd, Rumuorlumeni

Tank De-Sludging

- Tank cleaning for Noble Drilling, Tidex Nig. Ltd, and Equip. & Offshore Ltd. At The Federal Ocean Terminal, Onne

Environmental Impact Assessment (EIA)

1. EIA of proposed Heliport project at Onne,
Oil and Gas Free zone Authority - TEAM Leader. O. A Wai – Ogosu
2. EIA of proposed tanker park project, Port Harcourt Refining Company, Alesa -
Team Leader. O.A Wai – Ogosu
3. EIA of proposed FOT Onne development, (land reclamation for expansion)
Nigerian Ports Authority - Team Leader . O.A Wai – Ogosu
4. EIA of proposed Eganyi –Jakura –Baro Rail Link Project, Federal Ministry of
Transport-Team Leader. O.A Wai- Ogosu. Contact person. Engr. Oradiegwu -
08033229693
5. Socio-Economic Impact Assessment of Afam Power Integrated Project –
SPDC - Team Leader. Chukuigwe E.C
6. Socio –Economic Impact of Oyigbo FDP – SPDC Project - Team Leader.
Chukuigwe. E.C



7. Environmental Health Assessment of Abalamabie oil spill -Team Leader. Aprioku
8. Post Impact Assessment Study of SPDC Crude Oil line blow out in Ogbodo-Isiokpo, Ikwerre Local Government Area Rivers State in 2002 for the Ogbodo Community council of chief/
9. Soil and Vegetation studies of Ekulama cluster (EGGS 1) pipeline project for Shell Petroleum Development Co – Team Leader O.A. Wai-Ogosu.
10. Post Impact of Tebidaba Brass Agip Trunkline Spill: Proponent Tebidaba Community S. Ijaw L.G.A. Bayelsa state – team leader O.A. Wai-Ogosu.
11. EIA of Technology and Industrial Park at Eleme: Proponent Rivers State Government – team leader O.A. Wai-Ogosu. Contact person. C. Imabo Director – 08035007009
12. **Post impact of SPDC Well 13 (Yorla Field) fire outbreak – explosion in Kpaen, Khana L.G.A, Rivers State. – team leader O.A. Wai-Ogosu.**
13. **Post Impact Assessment of the SPDC 24” Nkpoku – Bomu Trunk line spill at Agbonchia, Eleme – team leader O.A. Wai-Ogosu.**
14. **Post Impact Assessment Study of NPDC – Chevron Well 2 Fire Blow out in Kahan Local Government Area, rivers State 2006-1008**
15. **Post Impact Assessment study of PPMC project line (Eleme To Aba) Vandalization in Ogale Eleme, Rivers State, 2007**
14. Environmental Due Dilligence of Eleme Petrochemicals Ltd prior to Privatization to Indorama Petrochemicals – Team Leader O.A. Wai-Ogosu. - 2006
15. Environmental Assessment of Agips flare site at Akaralou Community in Western Ahoada L.G.A – team leader O.A. Wai-Ogosu. - 2007
16. EIA of Proposed Expansion ATLAS Cement Co. Bagging Terminal at FOT, Onne team leader O.A. Wai-Ogosu. - 2008-2009
17. EIA of Intels Nig. Ltd. Helipad Project at FOT, Onne – team leader O.A. Wai-Ogosu. 2008. Contact person. Mr E. Ukpong - 08037401689
18. EER of Intels Nig Ltd Helipad project in Elelenwo off KM 16 PH/Aba Express way Port Harcourt Team - Leader O.A Wai-Ogosu. - 2009 Contact Person. Mr E. Ukpong - 08037401689
19. EER of Intels Port Facility in Warri NPA premises. Team Leader - O.A. Wai-Ogosu - 2009. Contact person. Mr E. Ukpong - 08037401689
20. EER of INTELS PORT Facility in Calabar NPA Premises. Team leader – O.A Wai-OGOSU 2009. Contact person. Mr E. Ukpong - 08037401689



21. **Preparation of Environmental Expert evidence in an Environmental Suit – K. Sarowiwa and Others versus Shell Petroleum Development Company Limited in New York, USA 2009 Also Defended the evidence.**
22. EIA of the Calabar-Umuahia-Ajaokuta Gas pipeline project. Proponent Fed. Min. of Petroleum Resources Contact Engr. Edwin Nwachukwu , Frazimex Engineering Ltd 08033384468
23. Environmental Baseline Study Monorial project by Rivers State Government, 2010
24. Containment and Clean up of spilled crude oil at Emago-Kugbor at ABOLGA, Rivers state. Client Nigerian Oil Company (NAOC) March, 2001 – Kigngsley Nwogbidi – Team Leader
25. Containment and Clean up of spilled crude oil at Obele –Makohia bush in Rumuekpe town KELGA in Rivers state. Client Nigerian Oil Company (NAOC) March, 2001 – Kigngsley Nwogbidi – Team Leader
26. Clean up of spill along Taylor Kreek, JoinKrama Water waterway Rivers/Bayelsa stated *State (March, 2002) client NAOC ,Kigngsley Nwogbidi – Team Leader
27. Clean up of oil spill at Akinima II and Oshie Client: NAOC, Kigngsley Nwogbidi – Team Leader
28. **Clean up of oil spill at Okposi (Along Ogoda Brass Pipeline) Client: NAOC, Kingsley Nwogbidi – Team Leader**
29. **Remediation of spilled land and impact vegetation at Mgbede 9 Well Head in Egbema/Etekwuru communities in Egbema area - Client: NAOC, Kingsley Nwogbidi – Team Leader**
30. **Remediation of oil spilled land and impacted vegetation at OB 29 and OB11 in Toal E&F Obagi area in Ogba/Egbema/Ndoni Local Government. Client: NAOC, Kingsley Nwogbidi – Team Leader**
31. **Pilot Remediation project of hydrocarbon contaminated sites Eboach in OBOB field of NAOC Client: NAOC, Kingsley Nwogbidi – Team Leader**
32. EIA of the Calabar-Okopedi Gas Spur pipeline Project. Proponent Fed. Min. of Petroleum Resources. Contact Engr. Edwin Nwachukwu , Frazimex Engineering Ltd
33. EIA of the OBOB-Owerri-Umuahia Gas pipeline project Proponent Fed. Min. of Petroleum Resources Contact Engr. Edwin Nwachukwu , Frazimex Engineering Ltd 08033384468
34. EIA of THE proposed Satellite Oil and Gas Housing Project in Victoria Island Lagos; Contact person Regional QHSE Manager Orlean Invest West Africa Ltd (COMPLETED PANEL REVIEW) E. Ukpong 08039401689



35. EIA of the proposed New Prodeco Yard in Oil and Gas Free Zone, Onne-Eleme, Rivers State contacting person Regional QHSE Manager Orlean Invest West Africa Ltd E. Ukpong 08039401689
36. EIA of the proposed LDPE, SSP, and Preform plants in Eleme petrochemicals co. ltd complex Eleme, Rivers State (submitted EIA Reported on 27th July 2011)
37. EIA of the proposed Fertilizer Plant in Eleme Petrochemical Co. Ltd complex, Eleme August 2011
38. EIA of the proposed Multi-Purpose Jetty Project in Onne Eleme, by Indorama Eleme Petrochemical Ltd July 2012
39. EIA of the proposed OBOB – Eleme Gas Pipeline project by Indorama Eleme Fertilizer and Co. Ltd July 2012
40. PEIA Report of the proposed 300KM LAGOS-SHAGAMU-IJEBU ODE-ORE-BENIN CITY (LOT 1) STANDARD GAUGE
41. PEIA Report of the PROPOSED 500KM BENIN – ONITSHA- ABA & ONITSHA-ABAKALIKI LOT 2 (A & B) STANDARD GAUGE RAILWAY LINE PROJECT
42. PEIA Report of the PROPOSED CALABAR- ABA STANDARD GAUGE RAILWAY LINE PROJECT 2014
43. Cumulative Impact Assessment (CIA) covering 10km radius of IEPL operation by Indorama Eleme Petrochemical Limited
44. EIA of the proposed 6,000MTP in Nigercem Premise Nkalaga Ebonyi State, by Ibeto Cement Co. Ltd 2015
45. EIA of the proposed 400,000MT/Year NPK Plant in Eleme



Air Pollution, Stack Sampling

- Programme of emissions monitoring and analyses to investigate emissions to atmosphere from ITS Drilling Services Ltd at Onne-Elеме.
- Air Pollution Monitoring and Stack Emission Survey from Mobil's propane & Butane plant in Bonny.
- Eleme Petrochemicals Ltd, Eleme, Rivers State
- ITS Drilling Services FLT, Onne Eleme, Rivers State

Environmental Assessment of:

- Environmental Audit Report of Air Liquid Plc, facility in Port Harcourt
- Environmental Audit Report of Indorama Eleme Petrochemical Co. Ltd facility in IEPL complex Eleme
- Environmental Audit Report of Horizon Fibers Nig. Ltd. Facility, in Port Harcourt
- Environmental Audit report of Bonny Allied industries Ltd. Facility, in Onne, Eleme, Rivers State
- Environmental Audit report of Eastern Bulkcem Co. Ltd. Facility, Rumuolumeni Port Harcourt
- Environmental Audit report of ITS Drilling Services facility, in Onne Eleme, Rivers State
- Environmental Evaluation Report of Advance Gases Ltd facility, in Onne, Eleme, Rivers State.
- Environmental Audit Report of Chesroc Nig Ltd Facility at Trans Amadi, Port Harcourt
- Environmental Audit Report of Sudellettra Nig Ltd facility, Port Harcourt
- Environmental Audit report of Almarine Nig. Ltd. Facility Port Harcourt
- Defense of Environmental Assessment Report in a Legal Suit against Agip Oil Company for Rananmi Abah and Associates.
- Environment Carrying Capacity of Okulu stream for Indorama Eleme Petrochemicals Ltd
- Noise Modelling of IEPL Complex for Indorama Eleme Petrochemicals Ltd



5.0 PROFESSIONALS/EXPERTS CURRICULUM VITAE

OLU ANDAH

NAME: OLU ANDAH, (MANAGING DIRECTOR)

QUALIFICATION: M.Sc. (Environmental Systems Management),

The American University, Centre for Technology and Administration, Washington D.C, USA, 1978.

BA (Biological Science). Catholic University of America, Washington DC USA, 1975.

SPECIALIZATION: Environmental Systems Management.

BACKGROUND AND PROFESSIONAL EXPERIENCE:

Over 30 years of experience in Environmental Management

Presented and published several papers in Environmental Science and Management.

Team Leader, for over 30 EIA Studies, worked in several supervisory and managerial capacities in industrial setting, among which are:

- Manager, Environmental Pollution Control Department, NAFCON LTD, Onne – Eleme 1983 -1998.
- Project Supervisor (with Environmental Duties), Vibelko (Nig.) Ltd,. Port Harcourt, 1980 - 1983.
- Environment Sanitation Officer - Port Harcourt City Local Government Council, 1980 NYSC.
- Environmental Control Officer, General Electric Company, Software Supercentre, Rockville, Maryland, USA, 1977 -1979.

Participated in many local and International workshops, among which are:

- Treatment of Industrial Effluents and Waste, International Solid wastes and Public Cleaning Association of West Germany, Munich, West Germany (22nd -30th may, 1981).



- Sponsored by the Polish Research Institute on Environmental Development to study Fertilizer Pollution Problems in Poland (26th June - 6th July, 1985).
- Sponsored by the British Council in Nigeria to study pollution problems in the United Kingdom. Objective to find out pollution control policies and strategy relevant to the Nigerian situation. (1st -20th June 1991).
- Phosphate fertilizer and the Environment, International Fertilizer Development Centre (IFDC) Tampa. Florida, USA (March 20/27 , 1992).

PROFESSIONAL APPOINTMENTS/MEMBERSHIP

- Consultant to four industries in Port Harcourt and oil & gas free zone Authority, Onne-Eleme 1998-date
- Member Technical Committee on the preparation of Environmental standards and guidelines for the River State Government and Chairman Environmental Management sub committee. 2001
- Chairman, Rivers State Urban solid waste management committee sponsored jointly by Rivers State & NAOC limited. 2002
- member, Air pollution control association of America
- Member, Nigerian Environmental society, and state chapter chairman, 2004-2008.
- National President Nigerian Environmental Society 2011 to date
- Member, British Institute of waste management.
- Senior Research Fellow, Institute of Geosciences, RSUST, PH
- Fellow Nigerian Environmental Society
- Environmental Manager – National Registry of Environmental Professional (NREP) USA
- Member 2014 National Conference convoked by the Federal Government of Nigeria representing Nigerian Environmental Society
- Member National Nuclear Energy Emergency Implementation Committee; Appointed by the Presidency of the Nigerian Government

EXTRA CURRICULAR ACTIVITIES:

- Sports AND Community Service



EDEM ANDAH

NAME: EDEM ANDAH Esq.
DATE OF BIRTH: JUNE 18, 1958
SEX: MALE
MARITAL STATUS: MARRIED
HOMETOWN: ESSIEN TOWN, CALABAR
POSITION: EXECUTIVE DIRECTOR LEGAL SERVICES

QUALIFICATION \ EXPERIENCE:

- | | |
|--|-----------|
| 1. WEST AFRICAN SCHOOL CERTIFICATE | 1975 |
| 2. LL.B. (HONS) B/L | 1979-1980 |
| 3. LLM | 1985 |
| 4. LEGAL DRAUTHSMAN INSTITUTE OF POLICY AND STRATEGIC STUDIES KURU, JOS. | 1981 |
| 5. SNR. STATE COUNCIL, EKET JUDICIAL DIVISION | 1982-1984 |

PROFESSIONAL AREAS:

1. CORPORATE, AND INTERNATIONAL LAW
2. DRAFTING & TAXATION
3. ENVIRONMENTAL LAW.



CURRICULUM VITAE (CV)

Position Title and No. Environmental Auditor
Name of Expert: Adeyemi Adewale Jonathan
Date of Birth: 04/July 1973
Country of Citizenship/Residence Nigerian/Nigeria

EDUCATION:

Rivers State University of Science and Technology 2008-2015 M.Phil Environmental Mgt
Ladoke Akintola University of Technology Ogbomosho 1995-2000 B.Tech Agronomy

TRAININGS:

- Project Management course training by DexNova Consulting Limited Dec 2013
- Lead Auditors Training and Certification for Quality Management System (ISO 9001) by Bureau Viritas (IRCA Certified) Oct 2009
- Lead Auditors Training and Certification for Environmental Management System (ISO14001) by Bureau Viritas (IRCA Certified) Oct 2008
- Registered Environmental Specialist Training & Certification by National Registry of Environmental Professionals (NREP) USA. Oct 2008
- Objective & Principle of Waste Management, Waste Mgt Planning and Material Recovery by Waste Management Society of Nigeria October 2008.
- Health, Safety & Environment (HSE) Level 3 Course by G-Platinum Petroserve (NISP), July 2003
- Basic & Practical First Aid Certification by Red Cross, Aug 2007

EMPLOYMENT RECORD RELEVANT TO THE ASSIGNMENT:

Period	Employing organization and your title/position. Contact information for references	Country	Summary of activities performed relevant to the Assignment
Feb 2009 - Till date	Metaspec Consult Limited / Lead & Managing Consultant Ibironke Temitope/ 08060468930	Nigeria	Managing a team of technical, scientific and engineering staff, writing plans and reports, keeping up to date with changes in environmental legislation and initiatives including directives, producing educational resources, liaising with regulatory bodies such as the Environment Agency
Jan 2008 – Dec 2008	Tropical Services Nigeria Limited/ Operations Manager South South Mr Jimi Adeleye / 08023258879	Nigeria	Overseeing the use of all resources within organisations, implementing environmental policies and practices, developing schemes for recycling, pollution reduction and pollution prevention, ensuring compliance with environmental legislation, auditing, analyzing and collating environmental performance data and reporting information to internal staff, clients and regulatory bodies, managing environmental strategy budgets, liaising with



			internal staff including senior managers and directors, providing environmental training to staff at all levels
June 2004 - August Jan 2008	International Energy Services Limited Port Harcourt Engr Wole Ajayi / 08033731888	Nigeria	Inspect and evaluate the environment, equipment and processes in working areas to ensure compliance with government safety regulations and industry standards
Feb 2002- March 2004	Lighthouse Petroleum Engineering Company Warri/ Environmental Officer Adeola Bamgboye/08074742578	Nigeria	safety assessment, risk assessment, exposure assessment, environmental modeling, Assists in conducting research, including literature reviews, data collection and expert interviews

MEMBERSHIP IN PROFESSIONAL ASSOCIATIONS AND PUBLICATIONS:

- National Registry of Environmental Professionals (NREP) USA.
- Nigerian Red Cross Society
- Waste Management Society of Nigeria (WAMASON)
- Nigerian Environmental Society
- Chemical Society of Nigeria (CSN)
- Nigeria Society of Agronomist
- Nigerian Institute of Safety Professionals (NISP)
- Soil Science Society of Nigeria (SSSN)
- Water Supply & Sanitation Collaborative Council (WSSCC) United Nations
- Gas Processors Association (GPA)

LIST PUBLICATIONS

- Adeyemi, J. A., Ewa, E. E., Iwara A.I. &Njar, G. N. (2013) Assessment of water Quality of the calabar River using multivariate statistical Technique. Journal of Applied Sciences Resaerch. Vol.9 No. 5. 3354-3363.
- Iwara, A. I., Gani, B.S., Adeyemi J.A &Ewa, E. E (2013) Effect of road construction on adjoining soil properties of Tinapa resort, sourth southern Nigeria.
<http://www.Iosrjournals.org>
- Ewa, E. E., Iwara, A. I. Adeyemi , A, Eja, E. I. Ajake, A, O. Otu, C. A (2011)Impact of industrial Activities on water Quality of Omoku Creeks, Sach Journal of Environmental Studies Vol. 1, No. 2. <http:www.Sachajournal.com/document/Ewa001-pdf>



- Iwara, A. I Ewa, E.E; Ogundele, F. O; Adeyemi J. A; Otu, C. A. (2011) Ameliorating Effects of palm Oil Mill in Ugep, Cross River State, South – Southern Nigeria. International Journal of Applied Science and Technology Vol. 5, No. 5. <http://www.ijastnet>
- Adeyemi J. A Ewa, E. E., Iwara, A. I, Alade, A. O, (2013) Spatio-temporal Distribution to phytoplankton in the industrial Area of Calabar River. Nigeria. Advances in Environmental Biology Vol. 7 (B) Pg. 466-470 ISSN- 1995-0756. <http://www.aensiweb.com>
- Adeyemi A.J, Adebayo T.O, Adedeji A.T. (2006) Effects of *Heliotropium europaeum* on Laboratory rats. Ladoke Akintola University of Technology Science journal Vol. 3. 137654

LANGUAGE SKILLS (INDICATE ONLY LANGUAGES IN WHICH YOU CAN WORK):

- English
- Hausa
- Yoruba

ADEQUACY FOR THE ASSIGNMENT:

Detailed Tasks Assigned on Consultant's Team of Experts:	Reference to Prior Work/Assignments that Best Illustrates Capability to Handle the Assigned Tasks
Study Coordinator	Environmental and Social Impact Assessment (ESIA) for the Proposed 330/132kv and 132/33kv Transmission Substations at Abor (9 th Mile) in Enugu State. World Bank April 2015
Study Coordinator	Environmental and Social Impact Assessment (ESIA) for the proposed 330/132kv and 132/33kv Transmission Substations at New Kano in Kano state. World Bank April 2015
Study Coordinator	Environmental and Social Impact Assessment (ESIA) for the proposed 330/132kv and 132/33kv Transmission Substations at Biliri in Gombe state. World Bank April 2015
Study coordinator	Environmental and Social Impact Assessment (ESIA) for the proposed 330/132kv and 132/33kv Transmission Substations at Kabba in Kogi state. World Bank April 2015
Environmental Auditor & study coordinator	Environmental and Social Management Plan (ESMP) for the Rehabilitation/Reinforcement of Awka, Anambra state 132/33kv Transmission Sub-station. World Bank July 2015
Environmental Auditor & study coordinator	Environmental and Social Management Plan (ESMP) for the Rehabilitation/Reinforcement of Yandev, Benue state 132/33kv Transmission Sub-station World Bank July 2015
Environmental Auditor & study coordinator	Environmental and Social Management Plan (ESMP) for the Rehabilitation/Reinforcement of Sagamu, Ogun state 132/33kv



	Transmission Sub-station. World Bank July 2015
Environmental Auditor & study coordinator	Environmental and Social Management Plan (ESMP) for the Rehabilitation/Reinforcement of Gusau, Zamfara state 132/33kv Transmission Sub-station. World Bank April 2015
Project Management	Preliminary Environmental Impact Assessment/ EIA Terms of Reference and Scope of Work of the Proposed 126km Aba – Uyo – Calabar Standard Gauge Railway Line Project. August 2013
Project Management & Environmental Auditor	Environmental Audit of Power Holding Company of Nigeria (PHCN) Successor Companies. (Afam Power Station, Egbin Power Station, Sapele Power Station, Ughelli Power Station, Geregu Power Station, Olorunsogo Power Station, Omotosho Power Station, Ijora Power Station, Calabar Power Station, Oji River Power Station, Kainji Power Station, Jebba Power Station, Shiroro Power Station, Abuja Electricity Distribution Company, Benin Electricity Distribution Company, Eko Electricity Distribution Company, Enugu Electricity Distribution Company, Ibadan Electricity Distribution Company, Ikeja Electricity Distribution Company, Jos Electricity Distribution Company, Kaduna Electricity Distribution Company, Kano Electricity Distribution Company, Yola Electricity Distribution Company, Poert Harcourt Electricity Distribution Company and Transmission Company of Nigeria) World Bank-March 2014
Project Management, Fieldwork & Report writing	Environmental and Social Impact Assessment of Indorama Eleme Petrochemical Multipurpose Jetty Project, Federal Ocean Terminal (FOT) Onne, Rivers State, Nigeria. (Foster wheeler Italy & Environmental & Chemical Services Nigeria /Metaspec Consult Limited Nigeria) IFC – August 2012
Project Management, Fieldwork & Report writing	Environmental and Social Impact Assessment of the Proposed Ammonia, Urea Plants in Indorama Eleme Petrochemicals Limited Eleme, Port Harcourt, Rivers State Nigeria by Indorama Eleme Fertilizer and Chemicals Limited. (Foster wheeler Italy & Environmental & Chemical Services Nigeria /Metaspec Consult Limited Nigeria) IFC – November 2012
Project Management, Fieldwork & Report writing	Environmental and Social Impact Assessment for the Proposed OBOB -Eleme Gas Pipeline Project by Indorama Eleme Fertilizer and Chemicals Limited, Port Harcourt Rivers State, Nigeria (Foster wheeler Italy & Environmental & Chemical Services Nigeria /Metaspec Consult Limited Nigeria) IFC – December 2012
Project Management, Project Management, Fieldwork & Report writing	Environmental Evaluation Review of Uquo Marginal Field Development Project for Frontier Oil Limited, Eket, Akwalbom state. November 2014
Project Management, Fieldwork & Report writing	Environmental & Social Management Plan for Aiteo Energy Resources Limited Jetty Dredging, Abonnema November 2013
Environmental Auditor& Soil Expert	Environmental & Social Management Plan and Audit of Resources Improvement and Manufacturing Company Limited Anambra state. November 2014



EXPERT'S CONTACT INFORMATION: (e-mail wela22ng@yahoo.com
Phone : 08037203989)

Certification:

I, the undersigned, certify that to the best of my knowledge and belief, this CV correctly describes myself, my qualifications, and my experience, and I am available to undertake the assignment in case of an award. I understand that any misstatement or misrepresentation described herein may lead to my disqualification or dismissal by the Client, and/or sanctions by the Bank.

Adeyemi Adewale

12/04/2015

Name of Expert

Signature

Date



PROF. TAMUNOENE KINGDOM SIMEON ABAM

NAME: **Prof. Tamunoene Kingdom Simeon ABAM**
DATE AND PLACE OF BIRTH: 14th July 1957, Okrika, Rivers State, Nigeria.
Institute of Geosciences and Space Technology,
Rivers State University of Science and Technology, PMB 5080. Port Harcourt, Nigeria.
PRESENT STATUS Senior Research Fellow
MARITAL STATUS: Married

QUALIFICATIONS OBTAINED AND AWARDED INSTITUTIONS

- B.Sc. Geology (Upper Second Class Honours Division)
University of Ibadan, Nigeria (Oct.1977 – June 1980)
- M. Sc. Applied Geology (Geophysics and Hydrogeology)
University of Nigeria, Nsukka (Oct. 1982 – April 1984)
- M.Sc/D.I.C Engineering Geology and Environmental Geotechnics
Imperial College of Science and Technology University of London, London (Oct,
1984 – June 1985).
- Ph. D. (Engineering Geology)
University of Nigeria, Nsukka (1995)

MAJOR PRODUCTIVE WORK AND COMMISSIONED TECHNICAL REPORTS:

- ABAM, T.K.S. (1989): Niger Delta Master Plan Project Report for Zone 2.
(Appendix A) – Niger Delta Master Plan progress Report (1). 1-3 pages.
- ABAM, T.K.S. (1989): Data bank and Computer Modeling of Channel Erosion
Chapter 4- Niger Delta Master Plan Progress Report (1) PP 4-22.
- ABAM, T.K.S. (1989): Integrated Coastal Zone Management Strategy for the
Niger Delta Sponsored by the WORLD BANK (56 pagers).
- ABAM, T.K.S. and BEETS, C.(1996): Hydrology of the Niger Delta. Commissioned
Technical Report, Euro-Consult in respect of the Niger Delta Environmental
Surveys (42 Pages).
- ABAM, T.K.S., C.C. OSADEBE and P.A. OGWUCHE (1997): Report on Gully
Erosion study of Ibakang and Ekpot Road Akwa Ibom State, Nigeria (30 pages),
NBRRRI, Technical Report.
- ABAM T.K.S. (2001) Static Cone Penetrometer evaluation of tank foundation at the
Port-Harcourt Refinery company Ltd. Port Harcourt.



WORKING EXPERIENCE:

- Nigerian Agip Oil Company NAOC 1976, Well Head Operator/ Maintenance Officer.
- Nigerian Mining Corporation, Jos (June 1981 – Oct. 1981) Field Geologist.
- Rivers State University of Science and Technology, Port Harcourt. (Nov.,1981 – Aug. 1989), and Institute of Geosciences and Space Technology.
- Imperial College, University of London, Demonstrator to B.Sc. (Civil Engineering Final Years) and M.Sc. (Engineering Geology Centre (1990 – 1987).
- Rivers State Polytechnic, Bori, Principal Lecturer in Geotechnical Surveying Technology, and Ag, Director, Computer Centre (1990 –1994)
- Nigerian Building and Road Research Institute (NBRI), Director, Road/ Environment Research Department, 1997 (on leave of absence).
- Niger Delta Environmental survey, Technical Secretariat, Lagos 1998 (On leave of Absence).

MEMBERSHIP OF PROFESSIONAL ASSOCIATIONS:

- Member, American Association for the Advancement of Science (1993)
- Member, New York Academy of Sciences (1993).
- Member and Zonal Representative of Nigerian Ecological Society (ECOSOC), Nigeria (1983-1984).
- Invited Member of the Intergovernmental Oceanographic Commission.
- Member, International Association of Hydrological Sciences (IAHS), Membership No. 48.

PUBLIC SERVICE APPOINTMENTS:

Member, Rivers State Government sub-Committee Industrial Pollution (Environmental Protection 1991- Date)

EXTRA CURRICULAR ACTIVITIES:

Astronomy: Chess, Nature Watching, Swimming and Fishing.

RECENT GEOTECHNICAL/ENVIRONMENT CONSULTANCIES:

- Hydrogeology Consultant to Nantipol on the Environment Study of PAN OCEAN OIL Company, Oghare Flow Station, Delta State (1993).
- Study Co-ordinator and Consultant to SPDC ENVE unit on the Environmental Evaluation Study of Obigbo North Flow Station (April-July 1995).



- Geotechnical Environment Consultant to IPCO Nigeria Limited on the Site Investigation programme for Bonny Export Terminal (PPMC) (March – April 19925).
- Geotechnical Quality Control Consultant for the Construction of the Bonny Export Terminal Work (June 1995-June 1996).
- Consultant Lecturer, Nigerian Society of Engineers (Port Harcourt Branch) workshop on Use Computers in Banking, Commerce and Engineers (June 1988).
- Consultant to the World Bank on Integrated Coastal Zone Management Strategy for the Niger Delta (1994-1995).
- Consultant to EURO-CONSULT on the Niger Delta Environmental Survey (NDES) project Sponsored by SPDC (1996)

INNOVATION

Development (designed and constructed) an extendable hand penetrometer for measuring insitu penetration resistance and untrained shear strength (this equipment has already been employed in IFERT'S master plan project, 1988) Equipment was exhibited at the National Science and Technology Week (NASTEC,90) 12-15 Nov, 1990 in Port Harcourt and in all Nigerian Polytechnics Technological Exposition at Yaba College of Technology, Lagos, April 1991 (Featured in Point Magazine of 26th April, 1993).



EWA EZA EWA

PERSONAL DATA

NAME: Ewa Eza Ewa
Birth of Place: Ediba
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Home Address: Flat 34 'B' Line-Federal Housing
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QUALIFICATION/DATES:

- ❖ Ph.D in view- Geography and Environmental Sciences.
(Land Evaluation Resources Planning and Mgt.) 2006 till date
- ❖ M.Sc. Geography and Environmental Sciences
(Environmental Planning and Resources Mgt.) 2005
- ❖ PGD: Institute of Oceanography
(Integrated Coastal Zone Mgt) 2000/2001
- ❖ HND: Science Lab. Technology,
University of Calabar, (Hydrobiology fisheries) 1998
- ❖ OND: Institute of Oceanography 1995
Fisheries Agriculture
- ❖ Spe Diploma: Institute of Oceanography 1994
Fisheries Aqua-Culture
- ❖ West African Examination Council (WAEC) 1992
- ❖ Certificate in Information Technology/Data
Processing Mgt 2002



EXPERIENCE / DATES:

- ❖ Consultant partner: (EIA) Chemical and Services Limited And Frazimex on Water Chemistry / Fisheries and Hydrobiology Assessment of the gas pipeline (EIA) Enroute Calabar – Ajaokuta
Submitted to Federal Ministry of Environment 2009-2010
- ❖ Consultant partner: (EIA) Chemical and Services Limited And Frazimex on Water Chemistry / Fisheries and Hydrobiology Assessment of the gas pipeline (EIA) Enroute Calabar – Okopedi
Submitted to Federal Ministry of Environment 2010-2011
- ❖ NYSC-Hydrographic and dredging Department
Nigerian Port Authority NPA Calabar. 2000
- ❖ Port facility security officer (PFSO)
Intels services limited Calabar Base 1998-2011

PROFESSIONAL ASSOCIATION:

- ❖ Association of Nigerian Geographers (ANG)
- ❖ Nigerian Environmental Society (NES)
- ❖ Nigerian Institute of Science technologist (NIST)

PUBLICATIONS:

- Ewa, E. Ewa et al (2006). Toxicity of Crude Oil to early life stages of Heterobranchus Logifilis (Curvier and Valiances)
- (Piscees Bagridea) ***Journal of Tropical Environmental Research***, 7; 450-457.
- Ewa, E. Ewa et al (2009). Zonation of Floral Species along a catchment in Adiabo Wetland of Calabar River. ***Journal of International Research***.
- Ewa, E. Ewa et al (2010). Mainstreaming gender for effective and efficient Mgt of national resources in Cross River State. ***Maiduguri Journal of Art and Social Sciences***.
- Ewa, E. Ewa et al (2010). Land degradation and experiences from Calabar, Cross River State South Eastern Nigeria .***Journal of human ecology India***.



- Ewa, E. Ewa et al (2010). Infiltration capacity of coastal plain soil in Calabar South Eastern Nigeria. ***International Journal of Sustainable Development Canada***
- Ewa, E. Ewa et al (2010). Variation in floristic parameters of riparian vegetation along the middle coast of Calabar River Southern Nigeria. ***International Journal of Sustainable Development Canada***.
- Ewa, E. Ewa al (2010). Environmental stewardship as a strategy for curbin Ecological problem in Nigeria. ***International Journal of Environmental Research and Policies***.
- Ewa, E. Ewa et al (2010). Properties of soil under forest vegetation in the Kwa-fall River Catchment of Southern Cross River State – Nigerian. ***International Journal of Environmental Science***.
- Ewa, E. Ewa et al (2010). Place of Agriculture in Rural Livelihoods: The Case of Rural Obanliku in Cross River State Nigeria. ***International Journal of Sustainable Development***. Canada. Accepted for publication.
- Ewa, E. Ewa et al, (2011) The Role of Private Sector participation in sustainable tourism development in Cross River State, Nigeria. ***International Journal of business and social science***. Vol.1, No.4.
- Ewa, E. Ewa et al, (20110) Tourism a catalyse for Hospitality industry development in **Calabar, Nigeria. Review of tourism Research**. (accepted for publication)
- Ewa, E Ewa et al, (2010) "Tourism potentials as a strategy for sustainable development of the Delta Region of Nigeria" ***International Journal of sustainable development***. (In-press).
- Ewa, E Ewa et al, (2010) "Volumetric Fluctuation of traffic flow and accident rate in Calabar, Nigeria". ***African Journal of Environmental Sciences***. (In-press).
- Ewa E. Ewa , (2011) An Assessment of water quality in the industrial area of Calabar River – Ph.D Dissertation (unpublished) submitted to graduate school university of Calabar Nigeria (Awaiting defends)
- Ewa E. Ewa, (2006) Effect of hydrocarbon pollution on the population density of ***Egeria radiata*** (Bone) Donicidea, Larmack ***galatea paradoxa*** in the Cross River, Nigeria- submitted to graduate school-university of Calabar. (unpublished)



- Ewa E. Ewa, (2003) Impact of Crud oil pollution to the early life stages of *hetrobranchus longifilis*- (published)

HOBBIESS

Reading, Traveling and Swimming

REFEREES

PROF. Eugene J. Aniah

Department of Geography and regional planning

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Hon. Chuks Agube

Former Chairman Abi Local Government Area

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PROF. E.E Osim

Department of Physiology

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OFFIONG RAPHAEL AYAMA

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PLACE OF BIRTH	-	AKAMKPA
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LOCAL GOVERNMENT	-	AKAMKPA
NATIONALITY	-	NIGERIAN
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INSTITUTIONS ATTENDED

- IMMACULATE CONCEPTION PRIMARY SCHOOL IKOT ANSA, CALABAR.
- ST. PATRICK COLLEGE, IKOT ANSA, CALABAR
- GOVERNMENT SECONDARY SCHOOL, AKAMKPA
- CROSS RIVER STATE COLLEGE OF EDUCATION, AKAMKPA
- UNIVERSITY OF CALABAR, CALABAR.

EDUCATIONAL QUALIFICATION WITH DATES

- FIRST SCHOOL LEAVING CERTIFICATE - 1998
- SENIOR SECONDARY SCHOOL CERTIFICATE - 1993
- INTERIM JOINT ADMISSION AND MATRICULATION BOARD EXAMINATION (IJMB) - 1994
- BACHELOR OF SCIENCE (B.S) GEOGRAPHY AND REGIONAL PLANNING - 1998
- MASTER OF SCIENCE (M.SC) ENVIRONMENTAL MANAGEMENT AND PLANNING, GEOGRAPHY AND REGIONAL PLANNING. - 2005
- DOCTOR OF PHILOSOPHY (PhD) IN BIO-GEOGRAPHY - 2010
- GEOGRAPHY AND ENVIRONMENTAL SCIENCE (Biogeography and Biodiversity Conservation).



WORK EXPERIENCE

- LECTURER II DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL SCIENCE, UNIVERSITY OF CALABAR, CALABAR - TILL DATE
- STUDENT TEACHER GOVERNMENT SCIENCE SCHOOL, AKAMKPA - (2006)
- BUREAU OF LANDS, SURVEY AND TOWN PLANNING P.M.B. 2027, IBARA, ABEOKUTA, OGUN STATE. (NYSC PROGRAMME) - (1999-2000)
- PLANNING OFFICER11 AKAMKPA LOCAL GOVERNMENT COUNCIL. - (2002-2006)
- RESEARCH SERVICES/SUPERVISION OF ENVIRONMENTAL DEGRADATION/HARZARDS. RAINFOREST RESOURCE AND DEVELOPMENT CENTRE (RRDC), CALABAR. - TILL DATE.
- RESEARCH CONSULTANT ON ENVIRONMENTAL IMPACTS ASSESSMENT(VEGETATION AND SOIL),EBONY & IVORY, NIGERIA. -TILL DATE
- RESEARCH CONSULTANT ON ENVIRONMENTAL IMPACTS ASSESSMENT(VEGETATION, WILDLIFE, GEOMORPHOLOGY AND SOIL), ENVIRONMENT AND CHEMICALS, NIGERIA. - TILL DATE
- RESEARCH CONSULTANT ON ENVIRONMENTAL IMPACTS ASSESSMENT (VEGETATION, WILD LIFE & SOIL), ECODEV, NIG. LTD. -TILL DATE
- ENVIRONMENTAL IMPACT ASSESSMENT (METEOROLOGY) FOR REAL PLANTATION,EKONG ANAKU, AKAMKPA LOCAL GOVERNMENT AREA. (2005)
- THE ENVIRONMENTAL IMPACT OF CRUSHED ROCK INDUSTRIES ON VEGETATION AND SOIL (2006)
- THE IMPACT OF QUARRYING COMPANIES ACTIVITIES ON VEGETATION AND SOIL OF AKAMKPA URBAN (2006)
- POST IMPACT ASSESSMENT OF OSIFO AGIP OIL FLOW STATION ON SOIL AND VEGETATION (2007)
- THE ENVIRONMENTAL IMPACT OF ROAD CONSTRUCTION FROM EKONG-NEGHE COMMUNITY, CROSS RIVER STATE ON VEGETATION AND SOIL (2009)
- THE IMPACT OF INDUSTRIAL ACTIVITIES ON PHYTOGEOGRAPHY



- OF WOODY TREE SPECIES (2009)
- THE IMPACT OF INTEL'S SERVICES ON VEGETATION AND SOIL IN THE CALABAR PORT ENVIRONMENT (2009)
 - THE IMPACT OF INTEL'S SERVICES ACTIVITIES ON THE ENVIRONMENT (VEGETATION AND WILDLIFE) IN SEA PORT, RIVERS STATE, NIGERIA (2010)
 - THE ENVIRONMENTAL IMPACT ASSESSMENT OF LIQUEFIED NATURAL GAS PIPELINE FROM CALABAR – AJAOKUTA ON SOIL, VEGETATION AND WILDLIFE (2009-2010)
 - THE ENVIRONMENTAL IMPACT ASSESSMENT OF GAS PIPELINE FROM ODOT UYI-OKOPEDI ON VEGETATION AND WILD LIFE (2011)
 - ENVIRONMENTAL IMPACT ASSESSMENT OF ROAD CONSTRUCTION FROM ESIT EKT L. G. A. – NSIT UBIUM L. G. A. ON VEGETATION AND WILDLIFE (2011)

PAPERS/PUBLICATIONS

QUALITY ANALYSIS OF DIFFERENT SOURCES OF DRINKING WATER IN CALABAR MUNICIPALITY, CROSS -RIVER STATE-NIGERIA (2009). THE CALABAR COUNSELLER VOL III NO2 CASSON.

PROBLEMS AND PROSPECTS OF POOR DRAINAGE SYSTEMS AND URBAN SUSTAINABILITY IN CALABAR, NIGERIA (2008). GLOBAL JOURNAL OF SOCIAL SCIENCES. VOL.7 NO.2.

MOBILITY IMPLICATIONS OF COMMERCIAL MOTORCYCLIST BAN IN THE UNIVERSITY OF CALABAR, CROSS-RIVER STATE-NIGERIA (2008). THE CALBAR COUNSELLOR. **VOL 2. NO.1.** CASSON.

NON-GOVERNMENTAL ORGANIZATION: A KEY TO SUSTAINABLE RAINFOREST RESOURCES CONSERVATION IN NIGERIA (2008) AFRICAN STUDIES REVIEW. VOL.51. PAID CAMEROM.

CONSEQUENCES OF INDISCRIMINATE FUELWOOD EXTRACTION IN EKOLI, CENTRAL, CROSS RIVER STATE, NIGERIA (2008). VOL.1 NO.2. UNICAL PRINTING PRESS CALABAR.

THE INFLUENCE OF ENVIRONMENTAL FACTORS ON TREES SPECIES COMPOSITION, DISTRIBUTION AND STOCKING DENSITY IN KWA FALLS RIVER VALLEY, CROSS RIVER STATE, NIGERIA (2008) AFRICAN JOURNAL OF ENVIRONMENTAL POLLUTION AND HEALTH. VOL.6. NO. 1. ELP SERVE. CALABAR.

CROSS- RIVER ESTUARY: CHANGING TRENDS AND RESOURCE UTILIZATION PATTERNS (2007). GLOBAL JOURNAL OF ENVIRONMENTAL SCIENCES. VOL.6.NO.2, 2007.



SOIL CHARACTERISTIC AND VEGETATION COMPOSITION IN THE RAIN FOREST OF CROSS RIVER STATE. A CASE STUDY OF OBAN GROUP RAINFOREST, AKAMKPA LOCAL GOVERNMENT AREA. (UNPUBLISHED). BEING A DESSERTATION FOR THE AWARD OF (B.SC) IN GEOGRAPHY AND REGIONAL PLANNING. SUBMITTED TO THE DEPARTMENT OF GEOGRAPHY AND REGIONAL PLANNING, UNIVERSITY OF CALABAR, CALABAR.

THE CROSS RIVER ESTUARY: CHANGING TRENDS IN LAND COVER AND RESOURCE UTILIZATION PATTERNS. BEING A PUBLICATION IN THE 49TH ASSOCIATION NIGERIA GEOGRAPHERS ANNUAL CONFERENCE, PORT-HARCOURT, 2005.

PATTERN OF TREES SPECIES DISTRIBUTION IN THE KWA FALLS RIVER VALLEY. A CASE OF AKAMKPA LOCAL GOVERNMENT AREA, CROSS- RIVER STATE- NIGERIA. BEING A PUBLICATION IN THE 48TH ASSOCIATION OF NIGERIA GEOGRAPHERS ANNUAL CONFERENCE, YOLA, 2006.

AIR TRAFFIC ACCIDENTS IN NIGERIA FROM 1969-2003: PROBLEMS AND PROSPECTS, CALABAR JOURNAL OF LIBERAL STUDIES. AN INTERDISCIPLINARY JOURNAL VOL IX.NO 1 (2006)

LAND CLAIM IN CALABAR SOUTH-NIGERIA: THE CONSEQUENCES ON THE ENVIRONMENT

TROPICAL FOCUS: THE INTERNAL JOURNAL SERIES ON TROPICAL ISSUES. VOL. 10 (2), 2009

EFFECTS OF LAND USE CHANGE ON SAID PHYSIOCHEMICAL PROPERTIES IN SOUTH-SOUTHERN REGION OF NIGERIA. AFRICA JOURNAL OF ENVIRONMENTAL POLLUTION AND HEALTH VOL. (2), 2009

ANALYSIS OF SOIL-VEGETATION INTERRELATIONSHIPS IN A SOUTH-SOUTHERN SECONDARY FOREST OF NIGERIA. INTERNATIONAL JOURNAL OF FORESTRY RESEARCH, VOL. 2012, PARTICLEID 469326. 2011.

INFLUENCE OF SECONDARY SUCCESSION ON SOILS IN THE CROSS RIVER RAIN FOREST, NIGERIA (UNPUBLISHED). BEING A Ph.D DISSERTATION FOR THE AWARD OF Ph.D DEGREE IN GEOGRAPHY AND ENVIRONMENTAL SCIENCE (BIOGEOGRAPHY AND BIODIVERSITY CONSERVATION).SUBMITTED TO THE DEPARTMENT OF GEOGRAPHY AND ENVIRONMENTAL SCIENCE (2010)

URBAN FLOODS: AN APPRAISAL OF THE EFFECTS OF FLOODING ON URBAN INFRASTRUCTURES IN CALABAR METROPOLIS, CROSS RIVER STATE – NIGERIA. URBANIZATION, RESOURCE EXPLOITATION AND ENVIRONMENTAL STABILITY IN NIGERIA. BOOK OF PROCEEDINGS OF THE 49TH ANNUAL CONFERENCE OF THE ASSOCIATION OF NIGERIAN GEOGRAPHERS (ANG) (2008)

HOBBIES

FOOTBALL, HANDBALL, VOLLEYBALL, TABLE TENNIS, LISTENING TO MUSIC, DANCING AND READING.



REFEREES

PROF. F. E. BISONG
DEPARTMENT OF GEOGRAPHY
REGIONAL PLANNING,
UNIVERSITY OF CALABAR,
CALABAR.
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MEMBER REPRESENTING CALABAR
SOUTH, AKPABUYO AND BAKASSI
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CURRICULUM VITAE

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ACADEMIC QUALIFICATION

B.Tech (Hons); M.Eng (EVE); M.Eng (Mgt); M. Eng (PHE)

MEMBERSHIP OF PROFESSIONAL BODIES

Registered Environmental Manager (REM) with the National Registry of Environmental Professionals, USA (Certification number A033)

Member: Nigerian Society of Engineers (NSE)

Member: Nigerian Environmental Society (NES)

Career History

Three Master degrees-qualification in Environmental Engineering, Engineering management and Public Health Engineering, with over Fifteen years of post-graduation hands-on experience in Environmental engineering/Management consultancy, and project management, with Ten (10) years' experience in Air quality, Noise and Meteorology studies and modelling. Rich working experience, and in-depth working knowledge of the difficult terrain (soil, environment, socio-political) of Nigeria's Niger Delta Region.

Computer Literate with proficiency in MS Word, Excel, PowerPoint, MS Access, Prism 3.0, and MatLab, Air quality, Noise and meteorology models (Screen View, Vscreen, ISCST, SoundPlan, AERMOD etc).

EXPERIENCE

- Conduct baseline and EIA studies, and EIA report presentation,
- Air quality, Noise, Meteorology specialist, industrial pollution compliance specialist,



- Conduct oil & gas environmental audits and evaluation;
- Environmental system modelling
- Design, install and maintain water treatment plants and facilities
- Data analysis using statistical tool
- Projects Management and Job Scheduling.
- Report writing and presentation etc.

Publications	
1	Conservation of electrical energy in a petrochemical Industry in Nigeria (Scientia Africana, Vol. 10 (No. 2), December, 2011, pp 105 - 123)
2	A review of modeling as a tool for environmental Impact assessment (IREJEST. Vol. 10. No. 1. June, 2013 PP. 39-46)
3	Measurement and Evaluation of Road Traffic Noise in Three Selected Junctions in Port Harcourt Metropolitan, Nigeria (JECET; March 2015-May 2015; Sec.A Vol.4.No.2, 0000-0000.
4	Evaluation of Construction Noise at Selected Highway Road Construction Sites in Urban City of Port Harcourt and Its Effects on Residential Environment (JECET; March 2015- May 2015; Sec.A Vol.4.No.2, 000-000.)
5	Assessment and Evaluation of Noise Pollution Levels in Selected Sawmill Factories in Port Harcourt, Nigeria (International Journal on Emerging Technologies 6(2): 01 -08(2015)

SOME RECENT PROJECTS UNDERTAKEN

- 1 Environmental Evaluation of Eleme Petrochemicals Company, Rivers State, Nigeria (2006)
- 2 Environmental air quality assessment of Eleme Petrochemical Company Limited its environs (2006)
- 3 Monthly Ambient Air, Noise and Meteorology Monitoring of Indorama Eleme Petrochemical Complex.
- 4 Development of a comprehensive Environmental Management System for Indorama Eleme Petrochemical Company (2007 - 2008)
- 5 Soil and groundwater assessment of Eleme Petrochemical Company Limited (2007).



- 6 Monthly Stack flue gas monitoring and analysis (IEPCL, ITS etc)
- 7 Environmental impact assessment of shoreline protection works at Atimagbene community, Burutu local government area, delta state, Nigeria (2008)
- 8 Environmental impact assessment of east/west road - Nyokuru-Tem-Baalueku-Lorre-Luebe-Taabaa/Okwali with spur from Baalueku-Sime-Obette road project (2009 - 2010)
- 9 Environmental impact assessment for shore protection and sand filling of Sangana community, brass local government area, Bayelsa state, Nigeria (2008)
- 10 Environmental impact assessment for 86.5 km obob - eleme gas pipeline (iepcl, 2012)
- 12 Noise impact assessment of indorama eleme fertilizer company limited (2013)
- 13 Environmental audit of IEPL facility located at IEPL complex, eleme rivers state (2014)
- 14 Cumulative impact assessment of fertilizer project Indorama Eleme Fertilizer Company (2015)
- 15 Environmental impact assessment for 6000tpd Clinker Cement Plant with Power Plant, IBETO Cement Company Limited, Nigeria (2016)

TECHNICAL PRESENTATION - SEMINARS/WORKSHOPS

- 1 Modeling Tools For Environmental Impact Assessment & Mitigation (Nigerian Environmental Society, 2012)
- 2 Principles of stack emission monitoring (Environmental Technology Trade Fair, Nigerian Environmental Society, 2015)
- 3 Noise monitoring, analysis and reporting (Environmental Technology Trade Fair, Nigerian Environmental Society, 2015)

Hobbies

1. Reading and researching.
2. attending seminars
3. Christian Music



REFEREES

1. **PROFESSOR T. G. LETON**
SENIOR LECTURER: CIVIL ENGINEERING DEPARTMENT
UNIVERSITY OF PORT HARCOURT, RIVERS STATE NIGERIA
PHONE: (234) 08033093848.

2. **PROFESSOR JOEL F. OGBONNA**
MANAGING DIRECTOR
POCEMA NIG LTD
PHONE: 08037099211
E-Mail: ogbonna.joel@halliburton.com

3. **ENGR OLU ANDAH WAI OGOSU**
CHAIRMAN NES & MANAGING DIRECTOR
ENVIRONMENTAL & CHEMICAL SERVICES LTD
PORT HARCOURT
PHONE: 08023650953, 08033384134
E-MAIL: envichemical@yahoo.co.uk



NWACHUKWU SOLOMON.U

CONTACT ADDRESS:

Mobile: +2340832906022

E-mail: temperatesolo@yahoo.com

No 107 Victoria Street,
Port Harcourt,
Rivers State,
Nigeria.

CAREER OBJECTIVE: To always make every effort to bring out the best of my professional ability and input to stand, as the overall benefit of any firm I am opportune to serve with.

PROFICIENCY:

- Ability to work under pressure and face challenges.
- Effective communication and interpersonal skills
- Proven record of integrity
- Eager to adopt and learn easily

PERSONAL DATA.

Sex:	Male
Marital Status:	Single
Date of Birth:	28 th February 1987
Place Birth:	Mbaise
Next of Kin:	Davidson
Home Town:	Umuifem Avutu
L.G.A:	Obowo Local Govt. Area
State of Origin:	Imo State
Nationality:	Nigerian
Language Skill:	English, Igbo



SCHOOL ATTENDED:

Rivers State Univ. of Sci.&Tech	2007-2012
Pedigree Computer Institute	2004
Iverock Comprehensive College	1997-2004
Community Primary School Umuifem	1991-1997

QUALIFICATIONS WITH DATE:

Diploma in Computer Operation	2005
West African School Certificate	2004
First School Leaving Certificate	1997
B SC Maths & Computer Science	2012

COMPUTER SKILL:

Microsoft Excel, Microsoft PowerPoint, Microsoft Word, Omega SPS, Face Static Utilities, Lotus 1,2, 3, Microsoft Access, Geoland, Geovector, Unix, AutoCAD, Corel Draw, Adobe Photoshop, Paint program, Instant artist, PageMaker, Microsoft Publisher, Java programming, FORTRAN, JavaScript, Structural Query Language (SQL) Visual Basic, HTML scripting, CSS, JQuery, and Joomola

WORK EXPERIENCE/SEMINARS ATTENDED

Company Net Base Computers
Job Title: Computer Instructor/Operator
Duration: 2004 - 2005
Job Description: Work as computer instructor (Head of Training) and also engaged in computer works eg. Graphic design and typing, and also responsible for keeping of office files (documents) and other related office works.

Company: Kori Int'l Nig. Company Limited
Job Title: Computer Operator
Duration: 2005 - 2006
Job Description: Work as a computer operator/ consultant in any computer related issues and also help type setting of jobs and graphic designs.



Company: TBA Enterprise
Job Title Computer instructor/Café Attendant
Duration: 2006 – 2007
Job Description: Responsible for attending to all browsers and also engaged in conducting computer classes in several packages. And also in charge of computer installation and maintenance.

Company: Bigos Computer House
Job Title: Computer Instructor /Manager
Duration: 2007-2008
Job Description: In charge of conducting Computer classes in several packages, and also responsible for computer repair, maintenance and installation and office administration

Company: Environmental & Chemical Services Ltd
Job Title: Computer Operator
Duration: 2008 – Till date
Job Description: In charge of any computer related jobs

INDUSTRIAL TRAINING (IT) EXPERIENCE

Company: Net-Base Computer Institute

Duration: Three (3) Months

Company Kori Int'l Company Limited

Duration: Three (3) Months

HOBBIES:

Football, Swimming, and Writing, Browsing, Traveling, Reading,



ASSOCIATION

Great Star Movie Production	(Member)
Nigerian Red Cross Society	(Member)
Nigerian Fitness Association	(Member)
Actors Guide of Nigeria (AGN)	(Member)

REFEREES:

Engr. Olu Andah Wai-Ogosu

MD/CEO

Environmental and Chemical Services Ltd

Port Harcourt

Mr. J. Adeyemi

Managing Director/CEO

Metespec Consult Ltd

08037203989



ANYANWU, Christopher Chidi

Date of Birth: 17th November 1962.

Nationality: Nigeria

Profession: Health and Social Health Expert: **Professional Experience:** 15years

Contact: Email: drchris.anyanwu@yahoo.com

Mobile: +2348064651599

No. 4, Otonye Street, Behind Eledenwo Police Station Eledenwo, Rivers State

PROFESSIONAL SKILL

A result oriented team player with ability to motivate people. Possess leadership qualities, utility worker. Ability to work with minimum supervision and can also work under stress. As a Health and Social Impact Expert: with exposure in various aspects of health and social impact assessment for over 15years, Has a wide national and international exposure through workshops, conferences, trainings and work. With special skills in the following:

- General health, safety and environmental management.
 - Accident reporting and investigation.
 - Industrial first aid,
 - Health risk assessment.
 - Fire prevention and protection.
 - Auditing a technical environment.
 - Customized SPDC HSE training.
 - EIA (Environmental Impact Assessment) Socio-economic and health impact assessment studies and community relations.
 - Toxicology and environmental protection.
 - Environmental remediation.
 - Waste management.
 - Public health and epidemiological studies.
 - Community health and nutrition.
-

ACADEMIC QUALIFICATION

BSc. (Biochemistry): University of Nigeria, Nsukka

PGD (Microbiology) Lagos State University, College of Medicine Ojo

MSc (Environment Resource Mgt): Lagos State University, Ojo

MSc (Public Health Epidemiology): Lagos State University, College of Medicine Ojo

PhD (Environmental Protection Management) Federal Uni of Agriculture Abeokuta



MAJOR JOB COMPLETED

- ENVIRONMENTAL IMPACT ASSESSMENT EIA FOR THE PROPOSED PAPALANTO 335 MW THERMAL POWER PLANT, AT OLORUNSOGO, OGUN STATE. (TEAM MEMBER) HIA, SIA, CO-ORDINATOR
- ENVIRONMENTAL EVALUATION REPORT EER OF THE SHIRORO HYDROELECTRICAL BUSINESS UNIT, SHIRORO, NIGER STATE, SIA, HIA COORDINATOR.
- ENVIRONMENTAL EVALUATION REPORT EER OF THE JEBBA HYDRO-ELECTRICAL POWER, JEBBA, NIGER STATE, SIA, HIA, COORDINATOR.
- TEAM LEADER FOR THE ENVIRONMENTAL IMPACT ASSESSMENT EIA OF PROPOSED OF ENUGU-MAKUDI 251 KM 330 KVA DC POWER TRANSMISSION LINE PROJECT.
- TEAM LEADER FOR THE ENVIRONMENTAL IMPACT ASSESSMENT EIA STUDIES OF THE PROPOSED NNPC MEGA FILLING STATION RETAIL OUTLET, GOMBE.
- ENVIRONMENTAL EVALUATION REPORT EER STUDIES OF THE NNPC MEGA FILLING STATION RETAIL OUTLET BAUCHI, BAUCHI STATE) SOCIO-ECONOMIC & HEALTH IMPACT ASSESSMENT.
- TEAM MEMBER ENVIRONMENTAL IMPACT ASSESSMENT EIA STUDIES OF THE PROPOSED NNPC MEGA FILLING STATION RETAIL OUTLET SOKOTO STATE, NIGERIA.
- PROJECT COORDINATOR ENVIRONMENTAL IMPACT ASSESSMENT EIA STUDIES ON THE PROPOSED OF NNPC, MEGA FILLING STATION RETAIL OUTLET, KASTINA, KASTINA STATE.
- ANALYSIS AND REPORT WRITING - EFFLUENT DISCHARGE ANALYSIS REPORT PHCN (POWER HOLDING COMPANY OF NIGERIA) PLC, KAINJI HYDRO-ELECTRICAL PLC.
- EFFLUENT DISCHARGE ANALYSIS REPORT PHCN (POWER HOLDING COMPANY OF NIGERIA) PLC, JEBBA HYDRO-ELECTRICAL PLC. (ANALYSIS AND REPORT WRITING).
- EFFLUENT DISCHARGE ANALYSIS REPORT PHCN (POWER HOLDING COMPANY OF NIGERIA) PLC SHIRORO HYDRO-ELECTRICAL PLC. (ANALYSIS AND REPORT WRITING).
- TEAM CO-ORDINATOR ENVIRONMENTAL IMPACT ASSESSMENT FOR FABRICATION YARD AND FPSO INTEGRATION FACILITY IN LAGOS HARBOUR (2007) - HAEREMAI NIG. LIMITED.
- PROJECT MANAGER / COORDINATOR ENVIRONMENTAL IMPACT ASSESSMENT EIA OF PROPOSED PETROLEUM DEPOT AT APAPA (2007).-BOVAS & COMPANY
- PROJECT COORDINATOR EIA OF THE GRAND PETROLEUM TANK FARM AT CALABAR FREE TRADE ZONE.(2007) -NOSAK INDUSTRIAL LTD.
- ENVIRONMENTAL IMPACT ASSESSMENT EIA OF THE AP DEPOT AT ONNE, RIVER STATE (2006). HIA, SIA, ASSESSMENT - AFRICA PETROLEUM PLC.(AP.)
- TEAM LEADER AND HIA,SIA COORDINATOR, ASSESSMENT OF ENVIRONMENTAL AND SOCIAL LIABILITIES OF ENUGU COAL MINES (OKPARA AND ONYEAMA COAL MINES) (2006) - MINISTRY OF SOLID MINERALS DEVELOPMENT.
- PROVISION OF ENVIRONMENTAL MONITORING SERVICES (POST DRILL) IN OPL-219 DEEP OFFSHORE (2007) - PROJECT COORDINATOR AND REPORT WRITER - SHELL NIGERIA EXPLORATION AND PRODUCTION COMPANY LIMITED (SNEPCO).
- PROVISION OF ENVIRONMENTAL MONITORING SERVICES (POST DRILL) IN OPL -245 DEEP OFFSHORE (2007) -PROJECT COORDINATOR AND REPORT WRITER - SHELL NIGERIA EXPLORATION AND PRODUCTION COMPANY LIMITED (SNEPCO).
- PROVISION OF ENVIRONMENTAL MONITORING SERVICES (POST DRILL) IN OPL -203 DEEP OFFSHORE (2007)- PROJECT CO-ORDINATOR CHEVRON/FOLOWIYO BLOCK (ERML).



- ADDENDUM TO OML -115/OML-67 EIA REPORT OF AUGUST 22004,OFFSHORE AKWA IBOM STATE (2006)-ADDAX PETROLEUM DEVELOPMENT (NIGERIA)LIMITED
- TEAM LEADER AND PROJECT COORDINATOR ENVIRONMENTAL IMPACT ASSESSMENT EIA OF INTERNATIONAL & DOMESTIC AIRPORT - IKEJA, LAGOS,-AVL LIMITED.
- TEAM LEADER AND PROJECT COORDINATOR ENVIRONMENTAL IMPACT ASSESSMENT (EIA) OF BULK LPG LEKKI, LAGOS - NIGERIA,-AVL LIMITED.
- ENVIRONMENTAL MONITORING OF IMO-1, AGG & IMO -2 (SPDC,ESSC CONTRACT) 2006 - ONGOING.
- COORDINATOR HIA FOR ENVIRONMENTAL IMPACT ASSESSMENT OF OPUOMA SHORELINES PROTECTION UGUTA IMO STATE NDDC.
- HIA AND SIA COORDINATOR FOR EIA OF SANGANA SHORELINE PROTECTION BY NDDC
- CO-ORDINATION / PROJECT MANAGER POST IMPACT ASSESSMENT PIA OF SOKU OIL SPILL SOKU SPDC
- ENVIRONMENTAL AUDIT (EAR) OF FORCADES OIL TERMINAL, FOCADES SPDC.
- ENVIRONMENTAL AUDIT (EA) OF INTELLS LTD- TRANSPORTS AND LOGISTICS WARRI.
- ENVIRONMENTAL IMPACT ASSESSMENT OF ILUABUCHI, WOJI, AKPAJO ROAD AND PORT HARCOURT RIVERS STATE.
- HIA AND SIA CO-ORDINATOR, UKWUGBA, UMUAPU, ETEKWU, EGBEMA ROAD BY NDDC.
- HIA AND SIA CO-ORDINATOR - EER OF IBETO CEMENT COMPANY LTD, PH.
- SIA CONSULTANT CALABAR, UMUAHIA, AJAOKUTA GAS PIPELINE, FEDERAL MINISTRY OF PETROLEUM RESOURCE, ABUJA.
- HIA AND SIA LEAD STENISON OIL PROPOSED PETROL RETAIL OUTLET IKWERE LGA, PH.
- ENVIRONMENTAL IMPACT ASSESSMENT OF BONNY NORTH NON-ASSOCIATED GAS PROJECT (BNAG). TEAM LEADER HEALTH IMPACT ASSESSMENT.
- HIA RIVERS STATE FOOTBALL COLLEGE OF EXCELLENCE, ETCHE, RIVERS STATE.
- HIA CONSULTANT AFAM OPEN CYCLE GAS TURBINE PROJECT.
- HEALTH IMPACT ASSESSMENT(HIA) OF RIVERS STATE SONGHAI INITIATIVE(SUATAINABLE ORGANIC AGRICULTURAL MANAGEMENT)
- HIA & SIA CONSULTANT FOR EIA ON SATELLITE MULTI-STOREY HOUSING PROJECT V/ISLAND.
- HIA LEAD (THE EIA OF THE CONSTRUCTION OF INTELS(PRODECO YARD0) ONNE, RIVERS STATE
- HIA& SIA LEAD CONSULTANT CHALLAWA/GORJE DAM PROJECT(HADEJA-JAMAARE RIVER BASIN AUTHORITY, KANO, KANO STATE
- HIA LEAD ENVIRONMENTAL IMPACT ASSESSMENT (EIA) UREA, METHANOL, FERTILIZER PLANT EPCLS
- HIA&SIA LEAD ENVIRONMENTAL IMPACT ASSESSMENT(EIA) FOR THE PROPOSED UBEFAN, ADEKAGBENE, SETREBOUBOU ROAD AND BRIDGE PROJECTS
- HIA & SIA LEAD POST IMPACT ASSESSMENT STUDIES OF ODIDI WELL 36.SPDC
- HIA & SIA LEAD ENVIRONMENTAL IMPACT ASSESSMENT OF THE PROPOSED OSAKWENIKE, OSIFO, OBUATO CANALIZATION PROJECT.
- HIA & SIA LEAD NEMBE FIELD DEVELOPMENT PROJECT (FDP) SPDC
- HIA &SIA ODIOMA FLOW STATION ENVIRONMENTAL EVALUATION REPORT SPDC



CAREER HISTORY

Acting vice Principal Unity Sec. School Olodi Apapa, Lagos.
Supervisor operation DPD Frankfurt Main Germany.
Medical Laboratory Scientist, Chemical Pathology Dept. LUTH
Health and Safety Officer-Waste Management Outfit (Hosp Waste Ltd)
Safety and security management - **Quarry Ltd, Ibadan.**
Senior environmental consultant **EAECL Ikeja.**
Senior environmental consultant - **Goddira Chemical Ltd Lagos.**
Senior environmental consultant -**AVL ltd, Yaba, Lagos.**
Project Manager- **Bodley company Ltd, Lagos.**

UNPUBLISHED & CURRENT WORKS

Integrated waste management system
Lagos state waste management authority - a critique
Oil spillage and its effects in water quality parameters
Effects of oil exploratory activities on the protein profiles of the inhabitants (A case study of Izombe & oguta)
Total quality management as a perspective in modern management
Using GIS in the management of natural resources
Stress management among senior staff of banks-a case study of first bank of Nigeria.

REFEREES

Prof.O E Osuagwu

Dept Information Technology,
Federal University of Technology Owerri (FUTO)

Prof .G.M Umezurike

Prof of Biochemistry, former HOD UNN
Dept of biochemistry, former VC
Abia state university, Okigwe

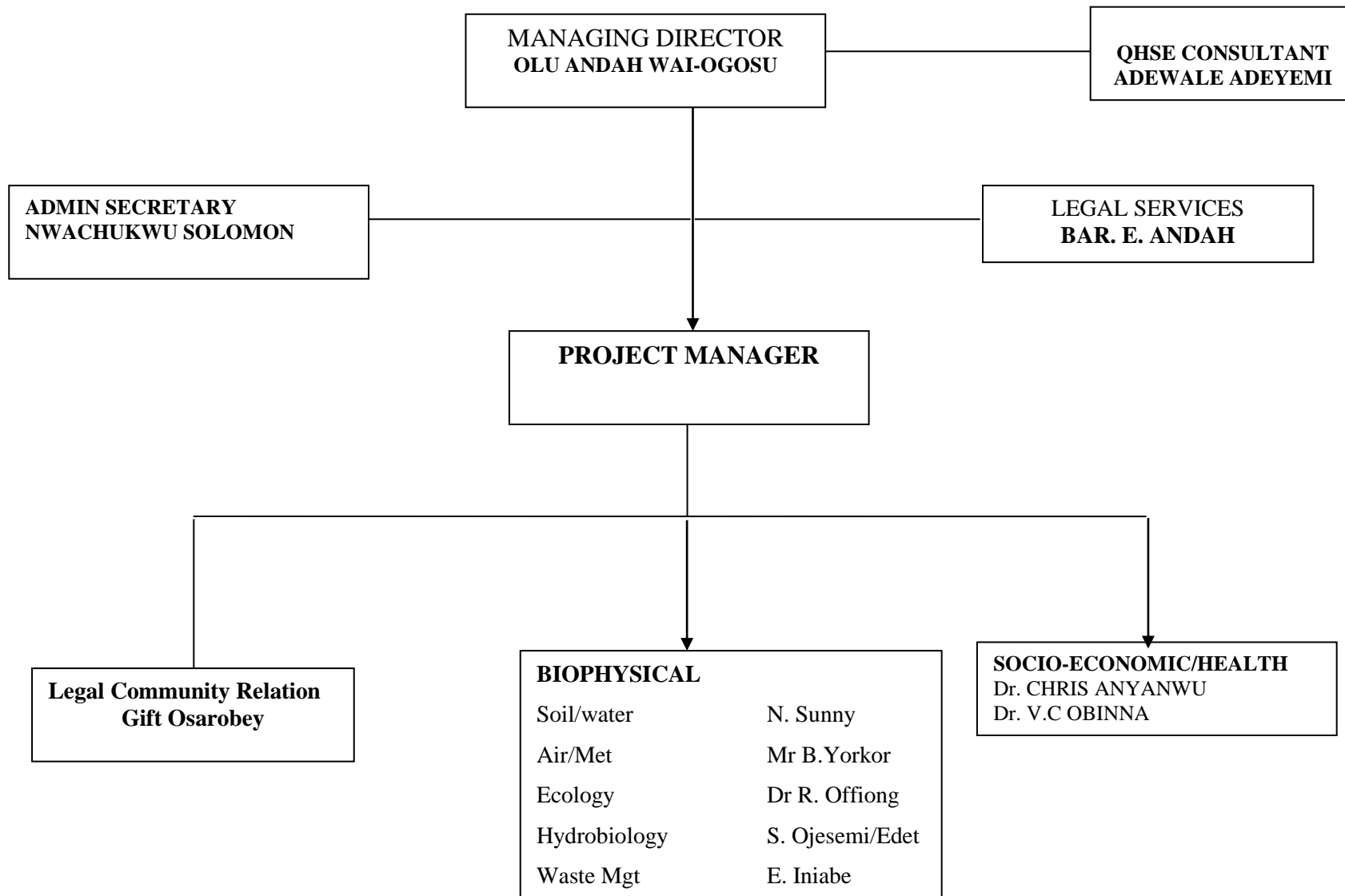
Dr. Ogunlewe Seye

Dept. Of Chemical Pathology
CMUL and Lecture, School of Medical Laboratory Science
LUTH.



6.0

ENVIRONMENTAL AND CHEMICAL LTD SERVICES ORGANOGRAM





7.0

PRIMARY EQUIPMENTS



EFFLUENT MONITORING EQUIPMENT

Equipment	Model	QTY	Capability
Portable pH Meter	ecoTestr pH1	1	Measures acidity and alkalinity level in aqueous sample Temp compensation automatic resolution -5°C to 105°C, Temp. Accuracy ±0.5, pH mode – 1.99 to 19.99 pH, Resolution: 0.01pH, Accuracy: ± 0.01pHb, pH Accuracy: ±0.01pH)
Conductivity/TDS Meter	ECTestr	1	Measurement of conductivity, total dissolved solids and temperature of aqueous samples
Portable Turbidimeter	HACH	1	Turbidity measurement (Range 0-1000NTU (=FNU) Manual range of 0-9.99, 0-99.9, and 0-1000NTU, Accuracy ±2% repeatability±1% or 0.0NTU), stray light <0.04NTU
Portable Microprocessor Turbidity Meter	Hanna Instrument HI 93703	1	Turbidity of Aqueous samples
Oxygen Meter	EXTECH Exstik DO600	1	Dissolved Oxygen Accuracy:0.5% +0.5% F.S, Resolution:0.01, Temp Range: 0-50°C
Residual chlorine Kit	HACH Chlorine Kit	1	Measures free and total chlorine concentration
Liquid Sampler	Liquid Effluent grab		Representative capture of sample
Sediment Sampler	Wildco instrument Eckman grab		For sediment Sampling
General			
GPS	GPSMAP 76CSx	1	For sampling station geo-referencing
Digital Camera	Olympus	1	
Field sample preservator	Coolers, HCl, etc	2	For life samples preservations



GASEOUS EMISSIONS & POINT SOURCE MONITORING EQUIPMENT

Equipment	Model	QT Y	Capability
Ambient Air quality & Gaseous point source emission analyzer	Testo 350XL gas analyser	1	Gas analyser automatically extracts atmospheric air sent through the analyser gas sensors for the determination of pollutant gases of interest (SO _x , VOC, O ₃ , NO _x , CO, H ₂ S, C _x H _y , and Ambient temperature).
	Biosystem Gas Analyser	1	
	RKI GX 2003 Gas Analyser	1	
Suspended particulate matter (SPM)	Airmetrics minivol sampler	1	A mini-volume portable air sampler (Airmetric ®) with a pre-weighed membrane filter (45µm) is used to collect particulate matter. After sampling, the membrane filter was dried in a desiccator and weighed to the nearest milligram. Measuring the mass of particulate matter and dividing by the volume of air calculated the mass concentration (gravimetry).
	Kanomax Handheld laser particule Counter Model 3887	1	A hand held portable laser counter air sampler with a probe used to collect particulate matter.
Noise	Extech 407735 Sound meter	1	Noise Level at each point is measured with a pre-calibrated digital readout. Sound level meter with measuring range of 30 – 130 dB (A), accuracy of ±1.5 dB (A) noise meter. The sensor of the noise meter was directed towards the source of noise and the average reading over a period of two minutes was taken to be the Noise-level at each point. The noise levels were measured in decibels (dB).
Wind direction and speed	Acurite	1	A combined Wind Vane and Anemometer is used in determining wind direction and speed. The wind speeds were measured in m/s.
Ambient Temperature, Absolute Pressure and Relative Humidity	Acurite	1	A multi-parameter digital barometer was used to measure temperature in °C, Absolute pressure in Pa and relative humidity as %, Atmospheric pressure, relative humidity and ambient temperature measurement. The logger is equipped with an atmospheric pressure probe (Barometer), relative humidity (Hygrometer) and a temperature probe (Thermometer).
Digital Barometer (Weather station)	Acurite	1	Atmospheric pressure, ambient temperature and relative humidity measurement
Heat & sun radiation	Skye Data Hog Paranometer	1	Measure the heat transfer from a source in w/m ³
Naturally occurring radioactive material (NORM)	Radiation Alert Tm Monitor 5	1	Measures radiation materials of alpha ,beta ,gamma etc in MR/hr
Soil Equipment			
Soil Auger		1	For collection of soil samples
Soil pH meter		1	For measurement of soil pH



8.0

PERMITS AND CERTIFICATES



Accreditation
No: 00 7243

FEDERAL MINISTRY OF ENVIRONMENT

ACCREDITATION TO OPERATE AS ENVIRONMENTAL CONSULTANT

The Permanent Secretary of the Federal Ministry of Environment (FMENV), hereby accredits the bearer whose particulars appear below to operate as Environmental Consultant pursuant to an Application for Registration/Renewal dated.....2ND FEBRUARY 2016.....day of

1. Full Name of Consultant: ENVIRONMENTAL & CHEMICAL SERVICES LIMITED
 2. Location of Business Premises/Laboratory: FLAT 6, CHINDA ESTATE, OFF RSUST ROAD, PORT HARCOURT

3. Year of Incorporation of Business: 2ND JUNE, 1998

4. Area(s) of Competence: ENVIRONMENTAL CONSULTANCY SERVICES (EIA, BASELINE/POST IMPACT STUDIES & COMPLIANCE

MONITORING/Audit)

This Accreditation is granted subject to compliance with all regulations, Guidelines, Standards and Control criteria as may be issued by the Federal Ministry of Environment from time to time.

Date of issue: 21ST JANUARY, 2016 Expiry Date: 30TH JANUARY, 2018

Seal of the Federal Ministry of Environment

FMENV shall not be liable to any claim(s) under this permit

[Signature]
 Permanent Secretary



National Environmental Standards and Regulations Enforcement Agency (NESREA)



Certificate of Accreditation

This is to certify that

Environmental & Chemical Services Ltd

with C.A.C. Registration No: RC: 336122

has been accredited to carry out environmental consultancy services in the following area(s):

1. Environmental Audit
2. Environmental Studies

20th September, 2016

Date of Issue

Director, Partnership & Education

Director, Planning and Policy Analysis

Director, Inspection and Enforcement

Director, Environmental Quality Control

Legal Adviser

19th September, 2017

Expiry Date

Director General/CEO

Note that you are expected to operate within the extant laws, regulations and guidelines.



NIGERIAN ENVIRONMENTAL SOCIETY



No. NES/33/12/15-15



This is to Certify that:

M/S Environmental & Chemical Services Ltd.

having satisfied the conditions laid down in the Society's Memorandum and Articles of Association is hereby elected a

Corporate 'C'

Of the Nigerian Environmental Society, and is fully entitled to all the privileges granted therein.

[Signature]

NES Secretary

[Signature]

NES President

This 1st day of

June 2015



THIS CERTIFICATE IS VALID FOR TWO (2) YEARS FROM THE DATE OF ISSUANCE



FEDERAL INLAND REVENUE SERVICE

VALUE ADDED TAX

VAT

Certificate of Registration

*No. PHV.10002336122

This is to Certify that

ENVIRONMENTAL & CHEMICAL SERV.LTD. FLAT 13, CHINDA ESTATE, PHC

**has been duly registered as an
agent for VAT collection
under**

THE VALUE ADDED TAX (VAT) DECREE NO 102 OF 1993

*This certificate confers all the rights and obligations
including the claim of credit for input tax paid
under the VAT Decree on any registered persons.*

Dated this 21ST **day of** JULY **19** 98

DIRECTOR (VAT) FIRS

LOCAL VAT OFFICER

This is to be inserted on all tax invoices, receipts and correspondence.

National Registry of Environmental Professionals

Be it known to all persons that the following individual pursuant to the requirements for education, experience and examination established by the National Registry of Environmental Professionals is entitled to all of the rights and privileges by the body and to be duly registered by it.

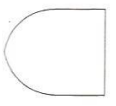
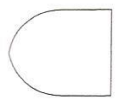
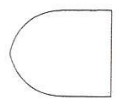
This is to certify that

Olu W Andah

is a

Registered Environmental Manager

This certificate will remain valid only if it bears the seal of the current year, unless revoked, suspended or invalidated by order of the Board of Directors of the National Registry of Environmental Professionals.



Witness our hand

This Day November 1, 2006

Richard Bergs
Executive Director

Registration Number:

A139

This certificate is the property of the National Registry of Environmental Professionals and must upon demand be returned.