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CURRICULUM VITAE OF ARLENE SINGH

Profession: Environmental Assessment Practitioner (EAP) / Director

Specialisation: Environmental Assessments, report writing, report reviewing, development of project proposals for

procuring new projects and project administration.

Work Experience: 10 years' experience in Environmental Assessments and 1 year in Sustainability Consulting.

VOCATIONAL EXPERIENCE

Professional execution of consulting services for projects in the environmental management field, specialising in Environmental Impact Assessment studies, environmental permitting, public participation, compilation of Environmental Management Plans and Programmes, environmental policy, and integrated environmental management. Responsibilities include report writing, project management, review of specialist studies and the identification and assessment of potential negative environmental impacts and benefits. Compilation of the reports for environmental studies is in accordance with all relevant environmental legislation.

Experience in conducting environmental impact assessments for infrastructure development projects (roads, stormwater, pipelines), Mixed Use Developments and Section 24G Applications for complex projects. She has extensive experience in managing and monitoring ECO functions and compliance on relevant projects. She has gained the ability to conduct sustainability assurance audits for non-financial environmental KPI's through her experience with listed mining corporations.

SKILLS BASE AND CORE COMPETENCIES

- Compilation of environmental impact assessment reports and environmental management programmes in accordance with relevant environmental legislative requirements;
- Identification and assessment of potential negative environmental impacts and benefits through the review of specialist studies;
- Key experience in the assessment of impacts associated with complex Section 24G Applications.
- Review of environmental impact assessment reports, impacts matrices and environmental management programme reports;
- Conducting of ECO audits, managing ECO staff, review of ECO reports and liaison with the client;
- Review of Carbon Footprint Analysis report and provision of recommendations for industry;
- Developing Business Development Plans, action plans and carrying out Business Development initiatives;
- Compilation of Integrated Reports in line with King IV;
- Conducting Mining Permit Applications with the DMR and the associated Basic Assessment process in line with the MPRDA;
- Extensive experience in compilation and submission of Tenders and Proposals;

EDUCATION AND PROFESSIONAL STATUS

Degrees:

- B.Sc. (Hons.) Environmental Management (2016), University of South Africa (UNISA);
- B.Sc. Environmental Science (2012), University of Kwa-Zulu Natal, Westville

Short Courses:

- Official DWS Section 21 (c) and (i) Water Use Authorisation Course (2018)- Dr Wietsche Roets, Specialist Scientist: (In Stream Water Use);
- SMME Green Building Face to Face Workshop (2018)- GBCSA hosted by JP Morgan;
- ArcGISBasic 10,3 (2016) Esri South Africa
- Energy within Environmental Constraints (2020)- Harvard (Online)
- Becoming an Entrepreneur (2020)- Massachusetts Institute of Technology (Online)

Professional Society Affiliations:

- South African Council for Natural Scientific Professionals Professional Natural Scientist: Environmental Scientist) Reg No. 118872
- Environmental Assessment Practitioners Association of South Africa- Reg No: 2019/898

Other Relevant Skills:

- Compiling and submission of invoices on projects;
- Registration of Waste Management Facilities on GWIS

EMPLOYMENT

Date	Company	Roles and Responsibilities	
16 December 2020-	Nala Environmental (Pty) Ltd	Environmental Assessment Practitioner / Director	
Current			
		Tasks include:	
		Compilation of Environmental Impact Assessment (EIA)	
		reports; Basic Assessment (BA) reports and	
		Environmental Management Programmes; Environmental	
		Screening reports; Co-ordination of the public	
		participation process; Project management; project	
		proposals and tenders; Client liaison and Marketing;	
		Process EIA Applications. Business Development,	
		Integrated reporting. Strategy, policy and procedure	

Date	Company	Roles and Responsibilities
		development. Planning of staff on engagements and
		Invoicing of clients.
08 April 2019- 15	Savannah Environmental (Pty) Ltd	Environmental Assessment Practitioner
December 2020:		
		<u>Tasks include</u> :
		Compilation of Environmental Impact Assessment (EIA)
		reports; Basic Assessment (BA) reports and
		Environmental Management Programmes; Environmental
		Screening reports; Co-ordination of the public
		participation process; Project management; project
		proposals and tenders; Client liaison and Marketing;
		Process EIA Applications.
01 January 2016- 05 April 2019	Triplo4 Sustainable Solutions (Pty) Ltd	Environmental Consultant/Gauteng Office Manager
		Tasks included:
		Review of Basic Assessment reports, Environmental
		Management Programme reports, Impact Matrices.
		Review of Environmental Control Officer functions, report
		and planning of site visits. Compiling Waste Management
		License Applications and Section 24G Application with
		reports for review by company Director. Review of
		specialist reports. Compilation of tenders, proposals and
		fee proposals. Co-ordinate public participation
		processes. Liaison with clients, stakeholders and
		competent authorities. Business Development, Integrated
		reporting. Strategy, policy and procedure development.
		Planning of staff on engagements and Invoicing of clients.
01 October 2014 - 31	PricewaterHouse Coopers (PwC)	Sustainability Consultant 2
December 2015		
		<u>Tasks included:</u>
		Non-financial auditing of Environmental KPI's (Primary
		water, Total Waste, Total Electricity, Total CDP Calc, Scope
		1, 2 and 3 emissions, Total CSI spend, Total Environmental
		incidents and Total Rock waste generated) for listed
		mining companies. Role included, testing of controls,
		applications of audit standards and guidelines,
		preparation and conclusions of audit papers and files,
		reporting to management and preparation of audit
		reports.

Date	Company	Roles and Responsibilities	
01 January 2013- 30	Triplo4 Sustainable Solutions (Pty) Ltd	Junior Environmental Consultant	
September 2014			
		<u>Tasks included:</u>	
		Conducting Environmental Control Officer audits and	
		drafting of ECO reports for review. Drafting of Basic	
		Assessment (BA) reports, Environmental Management	
		Programme reports for review by Environmental	
		Consultant. Conducting public participation by liaison with	
		competent authorities and stakeholders. Assisting with	
		compiling of Basic Assessment documents.	

PROJECT EXPERIENCE

Arlene has extensive experience in conducting environmental impact assessments for infrastructure development projects (roads, stormwater, pipelines) and renewable energy projects (solar, wind, csp and hybrid projects), Mixed Use Developments and Section 24G Applications for complex projects and housing developments. She has extensive experience in managing and monitoring ECO functions and compliance on relevant projects. She has gained the ability to conduct sustainability assurance audits for non-financial environmental KPI's through her experience with listed mining corporations. She has also been involved in undertaking Part 2 Amendment Applications and impact assessments for Renewable Energy Projects in South Africa. She currently manages staff and undertakes project planning to ensure that projects are executed within the appropriate timeframes and within budget.

MINING SECTOR PROJECTS

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Yzermyn Coal Mine EMPr, Piet Retief, Mpumalanga	Atha Group	EAP

Basic Assessments

Project Name & Location	Client Name	Role
Shaya Quarry Basic Assessment process, Empangeni,	Mbavuza Minerals	Project Manager
Kwazulu-Natal		
Umvoti River Sand Mining Basic Assessment process,	Izimbiwe Minerals Pty Ltd	Project Manager
Kwazulu-Natal		

Environmental Permitting, S53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications

Project Name & Location	Client Name	Role
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	Shaya Quarry Mining Permit Application, Empangeni,	Mbavuza Minerals	Project Manager
	Kwazulu-Natal		
Ī	Umvoti River Sand Mining Mining Permit Application,	Izimbiwe Minerals Pty Ltd	Project Manager
	Kwazulu-Natal		
Ī	Newark Quarry, llembe Municipality, Kwazulu-Natal	iLembe Concrete Pty Ltd	Junior EAP

INFRASTRUCTURE DEVELOPMENT PROJECTS (BRIDGES, PIPELINES, ROADS, WATER RESDURCES, STORAGE, ETC)

Basic Assessments

Project Name & Location	Client Name	Role
Replacement of Nseleni Bridge- Empangeni, Kwazulu-Natal	RHDHV	EAP
Construction of the 60ML Ntuzuma Reservoir, Ntuzuma,	eThekwini Metropolitan	Project Manager
Kwazulu-Natal	Municipality	
Upgrade of the Nyathikazi box culvert, Darnell, Kwazulu-	KwaDukuza Municipality	Junior EAP
Natal		
Upgrade and Expansion Provincial Main Road D887, Kwazulu-	RHDHV	Junior EAP
Natal		
Expansion of LOX and Diesel Storage at the Air Products	Air Products South Africa (Pty)	EAP
Facility in Coega, Eastern Cape	Ltd	

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
ECO Monitoring for Construction of Offtake I Reservoir,	KwaDukuza Municipality	Project Manager
KwaDukuza, Kwazulu-Natal		
ECO Monitoring for Construction of Offtake 6A2, 6D, 8C, 8D,	KwaDukuza Municipality	Project Manager
9, IID Pipelines, KwaDukuza, Kwazulu-Natal		
ECO Monitoring for the Construction of the Jozini RCWSS	RHDHV	ECO (1 year), Project Manager
Phase 1A, Jozini, Kwazulu-Natal		
ECO Monitoring for the Greytown BWSS, Greytown, Kwazulu-	RHDHV	Project Manager
Natal Natal		
ECO Monitoring for the Kranskop Water Supply Scheme,	RHDHV	ECO
Kranskop, Kwazulu-Natal		
ECO Monitoring for the Zulti South Access Road, Richards	RHDHV	Project Manager
Bay, Kwazulu-Natal		

Compliance Advice and ESAP reporting

Project Name & Location	Client Name	Role
Ethafeni Cemetery Environmental Assessment Report,	KwaDukuza Municipality	EAP
KwaDukuza, Kwazulu-Natal		

Environmental Permitting, S53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications

Project Name & Location	Client Name	Role
General Authorisation for the Replacement of the Nseleni	RHDHV	EAP
Bridge, Empangeni, Kwzulu-Natal		
Water Use Licence Amendment for Country Club	Country Club Johannesburg	EAP
Johannesburg		

HOUSING AND URBAN PROJECTS

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Ethafeni Precinct Project Section 24G Application- Groutville	KwaDukuza Municipality	Project Manager/Lead
, Kwazulu- Natal.		Consultant
Environmental Management Programme report Brettenwood	Brettenwood Coastal Estate	EAP
Residential Development, Kwazulu-Natal.		
Environmental Management Programme report for CTM	CTM	EAP
Ballito, Ballito, Kwazulu-Natal		

Basic Assessments

Project Name & Location	Client Name	Role
Upgrade of residential dwelling on Colwyn Drive, Salt Rock,	Mike Graham	Junior EAP
Kwazulu-Natal		
Ethafeni Precinct Project Basic Assessment, Groutville,	KwaDukuza Municipality	Project Manager
Kwazulu-Natal		
105 Nkwazi Drive Single Residential House Basic	Ituwiz Pty Ltd	Project Manager
Assessment, Zinkwazi, Kwazulu-Natal		

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
88 Compensation ECO Audits – Ballito, Kwazulu- Natal	lmali Corp	Environmental Control Officer (ECO)
Oceans Umhlanga Hotel & Residential Development,	Edison Property Group	Project Manager
Umhlanga, Kwazulu-Natal		
Inoxa Cookware Factory Warehouse, Woodmead Estate,	Shree Property	Project Manager
Shakaskraal, Kwazulu-Natal		
Woodmead Estate Warehousing, Gauteng	Shree Property	Project Manager
Ridgeside Commercial Development, Umhlanga, Kwazulu-	Shree Property	Project Manager
Natal		

Construction of Jozini Shopping Centre, Jozini, Kwazulu-	GK Projects	ECO
Natal Natal		
Birdhaven Residential Development, Ballito, Kwazulu-Natal	Mike Graham Trust	ECO
Foxhill Church and Residential Development, Ballito, Kwazulu-	M&C Janigh Trust	ECO
Natal Natal		
Beema Bamboo Plantation Site (Bamboo to Energy project,	Green Grid Energy	ECO
Kwazulu-Natal		

OTHER PROJECTS

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
Beema Bamboo Plantation Site (Bamboo to Energy project,	Green Grid Energy	ECO
Kwazulu-Natal		
Mkondeni Medical Waste External Waste Management License	Ecocyle Waste Solutions	Auditor
Audit , Pietermaritzburg		
Dube Tradeport External Audit, eThekwini	Dube Tradeport Corporation	Junior Auditor

Carbon Footprint Analysis

Project Name & Location	Client Name	Role
Carbon footprint analysis of Newcastle and Sasolburg	Karbochem Pty Ltd	EAP
Plants, (Kwazulu Natal & North West		
Measure Carbon Emissions and provide updated baseline	Dube Tradeport Corporation	Junior EAP
that would enable DTPC to quantify, monitor and assess		
carbon footprint and its climate change impact for DTPC,		
eThekwini		

Waste Management

Project Name & Location	Client Name	Role
Waste Classification Assessment for Karbochem Newcastle	Karbochem Pty Ltd	EAP
facility , Kwazulu-Natal		
Waste Management Licenses for Wadeville & Rosslyn Waste	Planet Care Pty Ltd	EAP
Management Facilities, Gauteng.		

Compliance Advice and ESAP reporting

Project Name & Location Client Name Role
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Environmental Opinion and Enquiry for the Rosslyn Tyre	Cosmic Energy	EAP
Pyrolysis Plant, Gauteng		

Non-Financial Auditing

KPI'S Audited	Client Name & Location	Rale
Total Primary Water Use, Total Electricity Used, Total Waste	Anglo Platinum (South Africa)	Sustainability Consultant
Generated, Scope 1, 2 & 3 Emissions and Total Number of		
Environmental Incidents.		
Total Primary Water Use, Total Waste Generate and Total	De Beers (Namibia)	Sustainability Consultant
Number of Environmental Incidents.		
Scope 1, 2 & 3 Emissions, Total Electricity Purchased, Total	Harmony Gold (South Africa)	Sustainability Consultant
Primary Water Used.		
Scope I, 2 & 3 Emissions, Total Electricity Purchased, Total	Exxaro (South Africa, Papua New	Sustainability Consultant
Primary Water Used and Total Rock Waste Generated.	Guinea)	
Total Corporate Social Investment fund spend by Barclays	Barclays Group	Sustainability Consultant
<i>Group</i>		
Audit Environmental and Social Risk Finance Projects -	MTN (South Africa & Nigeria)	Sustainability Consultant
Equator Principles		

Renewable Energy Projects

Part 2 Amendment Applications and Motivation Reports

Project Name & Location	Client Name	Role
Transalloys Coal-Fired Power Station near Emalahleni,	Transalloys (Pty) Ltd	EAP
Mpumalanga Province		
Zen Wind Energy Facility, Western Cape	Energy Team (Pty) Ltd	EAP
Hartebeest Wind Energy Facility, Western Cape	juwi Renewable Energies (Pty) Ltd	EAP
Khai-Ma and Korana Wind Energy Facilities	Mainstream Renewable Power	EAP
	(Pty) Ltd	
Korana Solar PV facility	Mainstream Renewable Power	EAP
	(Pty) Ltd	
Sutherland Wind Energy Facility	Mainstream Renewable Power	EAP
	(Pty) Ltd	
Rietrug Wind Energy Facility	Mainstream Renewable Power	EAP
	(Pty) Ltd	

Basic Assessments

Project Name & Location	Client Name	Role
Upilanga Solar Park, Northern Cape (x6 100MW PV's and	Emvelo Capital Projects (Pty) Ltd	EAP
x3 350MW PV Basic Assessments)		
Kolkies and Sadawa PV facilities and associated grid	Mainstream Renewable Power	EAP
infrastructure	South Africa (Pty) Ltd	
Hyperion Overhead Powerline	Red Rocket (Pty) Ltd	EAP
132KkV Phinda Power underground transmission line	Phinda Power Producers (Pty) Ltd	EAP
Msenge Emoyeni Wind Energy Facility supporting	Windlab (Pty) Ltd	EAP
infrastructure		
Sutherland Wind Energy Facility Grid Infrastructure	Mainstream Renewable Power	EAP
	South Africa (Pty) Ltd	
Rietrug Wind Energy Facility Grid Infrastructure	Mainstream Renewable Power	EAP
	South Africa (Pty) Ltd	
Emoyeni Grid Infrastructure for the Emoyeni Wind Energy	ACED	EAP
Facilities		
Msenge Emoyeni 88kV Powerline and On-site Substation	ACED	EAP
Waaihoek 66kV Powerline and On-site Substation	Mainstream Renewable Power	EAP
	South Africa (Pty) Ltd	

Finalisation of the EMPr and Layout

Project Name & Location	Client Name	Role
Msenge Emoyeni Wind Energy Facility	ACED	EAP
Iziduli Emoyeni Wind Energy Facility	ACED	EAP
Umsinde Emoyeni Wind Energy Facility	ACED	EAP
Khangela Emoyeni Wind Energy Facility	ACED	EAP
Sutherland Wind Energy Facility	Mainstream Renewable Power	EAP
	South Africa (Pty) Ltd	
Rietrug Wind Energy Facility	Mainstream Renewable Power	EAP
	South Africa (Pty) Ltd	
Sutherland 2 Wind Energy Facility	Mainstream Renewable Power	EAP
	South Africa (Pty) Ltd	

Environmental Impact Assessments

Project Name & Location	Client Name	Rale
Upilanga Solar Park, Northern Cape (350MW CSP Tower)	Emvelo Capital Projects (Pty) Ltd	EAP
350MW Risk Mitigation Power Plant (Gas to Power facility)	Phinda Power Producers (Pty) Ltd	EAP
75mw Thermal Dual Fuel Facility and associated	Red Rocket (Pty) Ltd	EAP
infrastructure (Hybrid facility i.e. gas to power and solar pv)		

Berg River Wind Energy Facility	Energy Team (Pty) Ltd	EAP

Section 54 Audits

Project Name & Location	Client Name	Role
Mulilo 20MW PV Facility, Prieska, Northern Cape	Mulila (Pty) Ltd	Auditor
Mulilo IOMW PV Facility, De Aar, Northern Cape	Mulila (Pty) Ltd	Auditor
Karoshoek CSP I Facility/ Solar One., Upington, Northern	Karoshoek Solar One (Pty) Ltd	Audit
Cape		



herewith certifies that Arlene Singh

Registration Number: 118872

is a registered scientist

in terms of section 20(3) of the Natural Scientific Professions Act, 2003
(Act 27 of 2003)
in the following fields(s) of practice (Schedule 1 of the Act)

Environmental Science (Professional Natural Scientist)

Effective 6 June 2018

Expires 31 March 2023



Chairperson

Chief Executive Officer





Registration No. 2019/898

Herewith certifies that

Arlene Singh

is registered as an

Environmental Assessment Practitioner

Registered in accordance with the prescribed criteria of Regulation 15. (1) of the Section 24H Registration Authority Regulations (Regulation No. 849, Gazette No. 40154 of 22 July 2016, of the National Environmental Management Act (NEMA), Act No. 107 of 1998, as amended).

Effective: 01 March 2022

Expires: 28 February 2023

Chairperson

Registrar









CURRICULUM VITAE OF NORMAN CHETSANGA

Profession: Environmental Assessment Practitioner (EAP)

Specialisation: Environmental Assessments, report writing, report reviewing, development of project proposals for

procuring new projects and project administration.

Work Experience: 10 years' experience in Environmental Management (8 years in Environmental Regulatory Body and 2

years in Environmental Assessments and Health & Safety Consulting).

VOCATIONAL EXPERIENCE

Well advanced in environmental auditing, ECO execution on various construction projects. Is a consultant in the environmental management field capable of drafting Environmental Management Plans, carrying out work focused on Environmental authorisation processes (Public participation, report drafting and project management of the authorisation process)

Vast experience in environmental impact assessments review, approval and associated environmental compliance inspections. Well experienced in environmental legislation interpretation and compliance thereof. Has also attained auditing skills in Health and Safety matters during his career.

SKILLS BASE AND CORE COMPETENCIES

- Reliable experience in environmental compliance monitoring and auditing.
- Adequate environmental legislation interpretation and assessment for the purposes of policy formulation.
- Comprehensive report writing and compilation in terms of Environmental authorisation reviews and draft compilations of BAR's,
 and EMPrs
- ECO experience in monitoring
- Water quality testing
- Air quality testing

EDUCATION AND PROFESSIONAL STATUS

Degrees:



Bachelor of .Environmental Science. (Hons.) Pollution Science(2008), Bindura University of Science Education;

Short Courses:

- Auditor Training Course ISO 14001:2004 (April 2009) with Southern African Auditor and Training Certification Association:
- ISO 17020 IBA Conformity Assessment Awareness Certificate with Deutsche Zertifizierung in association with Fleet Consultants

Professional Society Affiliations:

 South African Council for Natural Scientific Professionals - Professional Natural Scientist: Environmental Scientist) - Reg No. 115364

Other Relevant Skills:

- Environmental quality testing (Water sampling and air quality testing)
- Report writing
- SAP

EMPLOYMENT

Date	Company	Roles and Responsibilities
1 August 2021- Current	Nala Environmental (Pty) Ltd	Junior Environmental Assessment Practitioner
		Tasks include:
		Play a key role in environmental permitting, environmental authorisation applications, and compliance advice and assurance. Manage the delivery of EIA report and EMPrs. Execute and further develop and manage environmental permitting requirements (including, but not limited to, WUL, AEL, WML, biodiversity permits). Client liaison, networking and building on marketing strategies
April 2019- July 2021	EnviroFact Consulting cc	Environmental Control Officer/ Consultant.
		Tasks include:
		Conducting ECO work, inspections and reporting.
		Conducting HSE inspections as an independent agent for
		projects. Development of Environmental Management





Date	Company	Roles and Responsibilities
		Plans for project sites. Monitoring and Management of environmental activities on project sites. Preliminary compilation of EIAs, BARs and WULA processes.
		Development and implementation of Quality, Health, Safety & Environmental Management systems for clients. Auditing QHSE management systems and operations.
October 2010- March 2019	Environmental Management Agency	Provincial Environmental Quality Scientist Tasks included: Environmental Permitting and compliance monitoring Inspections. Regulatory Environmental protection in Hazardous substances and Wastes, Air quality, Water and effluent, Solid waste sections. Environmental Impact Assessment reviews including EMPRs and all associated EAs. Coordinating a biomonitoring and surface water sampling program for seven districts. Air quality testing and analysis. Hazardous substances spill response and contaminated land remediation. Data and trend analysis. Environmental billing, report writing, departmental budgeting. Stakeholder liason as required.

PROJECT EXPERIENCE

Norman has comprehensive experience in environmental management and monitoring at all levels of industry (mining, construction, timber processing, manufacturing and small scale enterprises). ECO experience in development and construction industries with greater exposure in road construction and bridge construction. Has also gained substantial experience in environmental management systems auditing in all levels of industry and recently extended to the motor industry.

PROJECTS

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
EMPr and maintenance management plan to conduct	Gauteng Department of Roads and	Junior EAP
maintenance and repair related activities in and around the	Transport	



Kikuyu Waterfall Cnr. Old Pretoria Main Road & Maxwell Drive Johannesburg, South Africa

> Email: norman@veersgroup.com Tel: +27 74 366 7048

floodplain of klipspruit watercourse around bridges b1727a and b1727b on road p186/1 (N12) in eldorado park	





Basic Assessments

Project Name & Location	Client Name	Role
Basic assessment and water use authorization process for	PRASA	Junior EAP
the PRASA construction Of a bridge at Koelenhof level		
crossing, Stellenbosch Local municipality, Western cape		

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
ECO Monitoring for Construction of road streets and	Mantsopa Municipality	ECO
stormwater in Masakeng and Thusanong, LadyBrand, Free		
State		
ECO Monitoring for upgrade of AH Roads, for City of	City of Ekhuruleni	ECO
Ekhuruleni, Pomona, Kempton Park, Gauteng.		
ECO Monitoring for the Construction of the Limpapo Low	Modimolle-Mookgophong Local	ECO
level bridge and access road, Limpopo	Municipality	
ECO Monitoring for the construction of 2.0km road in Orange	JDA	ECO
farm, Gauteng		
ECO Monitoring for the upgrade to National Route 3, section	RHDHV	ECO
2, from Cato ridge (km 20.2) to Dardanelles (km 26.6),		
Kwazulu-Natal		

Compliance Advice and ESAP reporting

Project Name & Location	Client Name	Role
Waste Impact Report, Wadeville Gauteng	Umso Construction	Junior EAP

Environmental management systems Auditing

Systems Audited/Developed	Client Name & Location	Role
HSE systems Internal auditing	Johnson Matthey (South Africa)	Candidate Systems Auditor
QHSE systems development and Implementation	Cancri Tropicus Transport and	Candidate Systems Auditor
	Logistics (Namibia)	



herewith certifies that Norman Chetsanga

Registration Number: 115364

is a registered scientist

in terms of section 20(3) of the Natural Scientific Professions Act, 2003
(Act 27 of 2003)
in the following fields(s) of practice (Schedule 1 of the Act)

Environmental Science (Professional Natural Scientist)

Effective 20 July 2016

Expires 31 March 2023



Chairperson

Chief Executive Officer

