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AFFIRMATION BY ENVIRONMENTAL ASSESSMENT PRACTITIONER – Scoping Report: As required in terms of Appendix 2, subsection (j) of GN982

PROJECT TITLE: THE PROPOSED CONSTRUCTION OF THE BLANCO (NARINA) TO DROËRIVIER 400KV POWER LINE AND FOR THE UPGRADE OF THE DROËRIVIER SUBSTATION.

DETAILS OF THE ENVIRONMENTAL ASSESSMENT PRACTITIONER (EAP)

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|---|-----------------------------------|-------|-----------------|
| Environmental Assessment Practitioner (EAP): | Envirolution Consulting (Pty) Ltd | | |
| Contact person: | Gesam Govender | | |
| Postal address: | PO Box 1898, Sunninghill | | |
| Postal code: | 2157 | Cell: | |
| Telephone: | (0861) 444499 | | |
| E-mail: | gesan@envirolution.co.za | Fax: | (086) 162 62 22 |
| EAP Qualifications | SACNASP (Pri Sci Nat) | | |

I, K. Govender, the appointed EAP confirm through this affirmation (as required in terms of Appendix 1 subsection (s) of GN982) that -

- i) To the best of my knowledge the information provided in this report is factually correct;
- ii) To the best of my knowledge all relevant project information which has been provided to stakeholders and interested and affected parties is correct.
- iii) All comments and inputs received from stakeholders / interested and affected parties, prior to submission of the Basic Assessment Report; has been included as part of the Final Basic Assessment Report and addressed where necessary.
- iv) All responses provided to comments received from stakeholders and interested and affected parties are the unbiased opinion of the EAP and are based on factually correct information.



Signature of the environmental assessment practitioner:

ENVIROOLUTION CONSULTING

Name of company:

11 October 2016

Date:

CURRICULUM VITAE

Name: **KARTHIGESAN GOVENDER**

Name of Firm: **ENVIROOLUTION CONSULTING (PTY) LTD (2004 – Present)**

Position: **Director and Project Manager**

Date of Birth: **12 April 1974**

Nationality: **South African**

Languages: **English, Afrikaans**

EDUCATIONAL QUALIFICATIONS

- B.Sc. – Wits University 1997
- B.Sc. (Honours) –Wits University 1999
- Certificate in Advanced Project Management – Damelin 2003

PROFESSIONAL REGISTRATION

- South African Council for Natural Scientific Professions (**SACNASP**) Reg. No. 400049/12
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KEY QUALIFICATIONS and RESPONSIBILITIES

Responsibilities

Management of all projects and screening, client liaison and Financial Management.

Feasibility Studies (2000 to date):

- Ekurhuleni Regional Professional Team- Conducted Environmental feasibility studies for more than 40 proposed sites for housing development on behalf of Gauteng Department of Housing.

Environmental Management Plans (EMPs) (2004 to date):

- Compiled EMPs associated with EIAs for housing developments as well as linear (power lines, pipelines and road infrastructure) construction developments and filling stations
- Developed procedures for conducting EMP related audits
- Conducted auditing of implemented EMPs

Environmental Audits (2006 to date):

- Chrome International South Africa- Tailings dam external audit
- Bakwena Platinum Corridor Concessionaire- Rustenberg bypass
- Various audits for construction projects including linear (power lines, pipelines and road infrastructure), residential and industrial projects.

Environmental Reporting and Policy Development (2000 to 2002):

- City of Johannesburg – Updating of the State of the Environment Report
- Conducted research on sustainable development issues affecting the city of Johannesburg
- Participated in the formulation of environmental strategy and policies, including Local Agenda 21
- Evaluated and commented on EIA's or development applications

- Reported on any environmental legislation insofar as it affected the city of Johannesburg
- Writing of Projects Terms of References for Consultants as well as managing consultants
- Task Team member of World Summit on Sustainable Development (WSSD) 2002 Preparatory Committee
- Task Team member of the Local Government Summit (LGS) coordinating committee for WSSD
- Provided input to the various WSSD sub-committees (WSSD Greening *etc.*)
- Coordinated and participate in the Local Agenda 21 activities of the City of Johannesburg
- Coordinated, participated and provided input into WSSD activities of the City of Johannesburg in conjunction with external stakeholders
- Stakeholder liaison and implementation of environmental policy and legislation
- Provided input into LIDP and Environmental Policy processes
- Assisted ICLEI with WSSD related activity and local government initiatives

Environmental Impact Assessment (2004 to date)

- Exemptions (various applications) - including installation of fuel storage tanks, township and commercial developments
- EIAs for proposed Cemeteries
- EIAs for formalising of township developments
- EIAs for filling station developments
- EIAs for the relocation of Sewer Plants
- EIAs for road upgrades and development
- EIAs for proposed housing developments in Ekurhuleni Metropolitan Municipality on behalf of Gauteng Department of Housing – more than 25
- Scoping studies undertaken and project managed with budgets exceeding 2 million rand, project managed all the EIA related work for the Ekurhuleni Regional Professional Team
- EIAs for Eskom Power Transmission and Distribution Lines
- Managed and participated in various environmental projects & programmes, in conjunction with external partners and stakeholders
- EIA for the Eskom Medupi Landfill
- EIAs Johannesburg Water
 - Sewer treatment Plants
 - Network construction and Upgrades

Projects worked on and managed (2000 to 2004):

- Cities State of the Environment Report (CSOER) on the Internet – WSSD Project (Managed its updating)
 - ICLEI's Cities for Climate Protection (CCP) Campaign – WSSD Project. (Coordinator for the City of Johannesburg)
 - Managed pilot projects focused on demand side management of energy resources : Energy efficient retrofitting of street lights as a showcase for WSSD, partnered with the International Institute for Energy Conservation (IIEC) – WSSD Project
 - Managing Water for South African Cities with United Nations Center for Human settlements (UNCHS), involving Catchment Management of the Klipriver System and Upgrade
 - The Strategy for Sustainable Development (SSD) for the City of Johannesburg WSSD Project
 - Housing Projects with DANCED
 - Green Procurement Project of the City of Johannesburg
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EMPLOYMENT EXPERIENCE

ENVIROOLUTION CONSULTING (PTY) LTD

Director (1 September 2004 – present)

EIMS Group

Associate and Environmental Specialist for Environmental Impact Management Services (EIMS) and Director of Tswelopele Environmental (2002- 31 August 2004)

City of Johannesburg (Braamfontein)

Environmental Management Specialist
(2000-2002)

Standard Bank

212 Smith Street, Braamfontein
Position: Bank Teller (Nov. 1996 – May 1998)

Electronic Data Systems (EDS)

Commissioner Street, Johannesburg
Position: Customer Services Consultant (June 1998 – Jan. 1999 & Jan. 2000 – Aug. 2000)
Reason for leaving: Employed by City of Johannesburg

Wits University

- 1999: Teaching assistant for first year Zoology, Botany and Medical Students, and College of Science students at Wits University.
- 1999: Mapping and sampling vegetation at Nylsvlei Nature Reserve in the Northern Transvaal.
- 1999: Tutoring Zoology and Botany to first year and College of Science students at Wits University

**CURRICULUM VITAE
CHEDA SHEILA MUNIONGO**

Phone Number: 073 517 6823
Email Address: sheilamunio@yahoo.com
Identity number: 8102121259184
Physical address: 89 Gibson Dr West, Buccleuch, 2090
Languages: English (excellent)
French (very good)
Zulu, Sotho, Swahili (good)
Afrikaans (poor)

EDUCATION AND PROFESSIONAL STATUS

Degrees:

- B Sc (Geography & Environmental Management): University of Johannesburg (2008)
- BSc (Hons) (Environmental Management): University of South Africa (2010)
- MSc (Environmental Management): University of Johannesburg (in progress)

Profession: Environmental and GIS Consultant
Specialisation: Environmental Management, strategic environmental advice, environmental compliance advice and monitoring, environmental, impact assessment and GIS
Years' experience: Five (environmental management), Seven (GIS)

SKILLS BASE AND CORE COMPETENCIES

- Strategic and compliance advise for all aspects of environmental assessment and management
- Working knowledge of environmental planning policies, regulatory frameworks and Environmental Auditing and compliance monitoring legislation
- Strategic and regional assessments; pre-feasibility & site selection
- Identification and assessment of potential environmental impacts and benefits
- Development of practical and achievable mitigation measures and management plans and evaluation of risk to project execution
- Environmental compliance advise, monitoring and reporting for construction projects
- Public participation/involvement and stakeholder consultation
- Experienced in assessments for both linear developments and nodal developments
- Key experience in the assessment of impacts associated with renewable energy projects
- Wide range of experience for public and private sector projects
- Research
- Compliance advice for Financial Close
- Drafting of proposals and Tenders
- Project management and planning (including budgets)
- GIS (ArcGIS)

KEY RESPONSIBILITIES

- Providing consulting services to clients for Environmental-related matters.
 - Conducting Environmental Impact Assessment (EIA) processes.
 - Preparation of EIA reports
 - Managing multidisciplinary teams including subcontractors
 - Client communication
 - Creation of maps for various projects
 - Proposal preparation
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RELEVANT PROJECT EXPERIENCE

- Environmental Impact Assessment Studies for the following projects:
 - Environmental Assessment and Environmental Management Programme for Hillside 132kV substation and power line project (Mpumalanga Province), South Africa.
 - Environmental Assessment and Environmental Management Programme for Thabatsipi 132kV substation and power line project (Limpopo), South Africa.
 - Environmental Assessment and Environmental Management Programme for Simthabi 132kV substation and power line project (Limpopo), South Africa.
 - Project management and Environmental Impact Assessment for Roodepoort Strengthening 400kV power lines 400/88kV MTS substation (Gauteng), South Africa.
 - Project management and Environmental Impact Assessment Avalon Cemetery Extension (Gauteng), South Africa.
 - Environmental Assessment and Environmental Management Programme Merapi & Sannaspos Solar Energy Facility, Excelsior Free State Province.
 - Environmental Assessment and Environmental Management Programme for Blackwood and Boundary, Free State Province.
 - Environmental Assessment and Environmental Management Programme for Kheis Solar Park, Northern Cape Province.
 - Environmental Assessment and Environmental Management Programme for Damfontein & Wonderheuvel, Northern Cape Province.
 - Environmental Assessment and Environmental Management Programme for Proposed Eskom Aberdeen Wind Facility, Eastern Cape Province.
 - Environmental Assessment and Environmental Management Programme for Proposed Eskom Kleinzee Wind Project, Northern Cape Province.
 - Environmental Assessment and Environmental Management Programme for Proposed Saldannha Bay Strengthening Project, Western Cape Province.
- Environmental compliance auditing and ECO:
 - Environmental Control Officer (monthly audits) undertaking environmental monitoring for the Dorper Wind Farm near Molteno in Eastern Cape (2014)
- Environmental screening studies:
 - Environmental Screening Report for the Bosjesmansberg Solar Energy Facility near Copperton, Northern Cape.

WORK HISTORY

1. Organisation: Savannah Environmental
Period: June 2012-December 2015
Position: Environmental and GIS Consultant
2. Organisation: Fourth Element Consultant
Period: Feb 2011 - May 2012
Position: Environmental Consultant and GIS Practitioner
3. Organisation: Shango Solutions
Period: June 2008-Jan 2011
Position: GIS Practitioner and Data Capturer

REFERENCES

- Mrs Gabriele Wood: Senior Public Participation Manager, Savannah Environmental
Contact: T: 011 656 3234; C: 083 458 5570.
- Mr Tsepo Lepono: Environmental Director; Fourth Element. Contact: T: 011 022 1364; C: 083 339 9103; E: tsepo@ecosolve.co.za

CURRICULUM VITAE : MARINDA LE ROUX



Fields of Specialisation

- Research & Report Writing
- Project Management
- Environmental Impact Assessments
- Land Use Development Planning

Personal Details

ID number
Contact Nr
E-Mail

Citizenship
Valid Driver's Licence

Marinda le Roux
6808060098084
+27 (0) 614174281 (Cell)
info@marindaleroux.co.za
marinda@envirolution.co.za
South African
Code A1 & Code EB

Language Proficiency

| | Read | Write | Speak |
|------------------|-----------|-----------|-----------|
| Afrikaans | Excellent | Excellent | Excellent |
| English | Excellent | Excellent | Excellent |

Education

- BA, University of Stellenbosch (Geography, Sociology), 1989
- MTRP (Masters in Town & Regional Planning), University of the Free State, 1992
- EIA Theory & Practice, CEN University of the North West, 2000
- GIS - Operating a vector-based Geographical Information System, UNISA, 2014

Professional Registration

- Town & Regional Planner: SA Council for Town & Regional Planners (SACPLAN) 1997
- Environmental Assessment Practitioner of South Africa (EAPSA) 2003

Employment history

ENVIROLUTION CONSULTING

Envirolution Consulting is a specialist consulting company, focusing on Environmental Impact Assessments, Public Participation and Project Management Consulting www.Envirolution.co.za



2014 - PRESENT: PROJECT MANAGER & EAP

Project Manager Project Researcher and/or EAP for the following projects (current/in process):

EAP and project manager for the Basic Assessment for the Diepsloot East to Lulamisa Substation, Gauteng (Eskom)

Project Manager & EAP for Scoping and EIA for the proposed K148 Road (Gauteng, Gautrans)

Project Manager & EAP: Scoping and EIA for a proposed 400kV Transmission Power Line from Gourikwa to Blanco substations (George to Mossel Bay) in the Western Cape (Eskom). Discussions with land owners & integration of specialist reports (agriculture, avifauna, ecology, heritage, economic/tourism and wetlands)

Impact Assessment to determine the impact of a proposed 400kV Transmission Power Line between George and Beaufort West (Western Cape Province, Eskom) on the natural and social environments. Research included discussions with land owners and integration of specialist reports (agriculture, avifauna, ecology, heritage, economic/tourism and wetlands)



The assessment of impacts of the development of the new Shangoni entrance gate in the Kruger National Park, its reception area, tourism education centre, picnic area, and tented camp. The project includes the upgrading of 50km of road to link the Bateleur and Mopani camps, with public participation and stakeholder engagement.

Impact assessment for the construction of Route K97 northbound of the N4, Gauteng (Gautrans). Research included discussions with land owners and integration of specialist reports.

Assessment & research for the environmental impact assessment for the expansion of agricultural activities of Rainbow Chicken Farms (at Bronkhorstspuit, Gauteng).

Environmental Compliance Audit - ECO of Eskom Kusile Power Station and associated infrastructure (Biannual IFC, CEMP & ROD)

Researcher and Project Manager for the assessment of impacts of remedial erosion measures at JRA roads at Weltevreden (Gauteng)

EAP for the Basic Impact Assessment for the construction of storm water pipelines at Neptune substation at East London, Eastern Cape (Eskom)

EAP for the Basic Assessment of the impact of the construction of the Kgalabatsane Substation and distribution power lines, North West (Eskom)

EAP for the Basic Assessment of impacts of the construction of 132kV Overhead Power Line and Associated Substations for Diepsloot East-Crowthorne -Blue Hills, Gauteng (Eskom)

Environmental Compliance Auditor for the expansion of agricultural activities at the Rainbow Chicken Farms at Bronkhorstspuit, Gauteng (RCF).

An assessment of impacts of the proposed Kyalami-Midrand Strengthening Project consisting of a substation and 400kV transmission lines (Eskom). Research included discussions with land owners and integration of specialist reports.

Integration of reports, research and assessment of impacts for the construction of 88kV underground distribution cable from Bluehills Substation to Crowthorne Substation, City of Johannesburg Municipality, Gauteng Province (Eskom)

Basic assessment of impacts for the construction (rebuild) of the 88kV Overhead Power Line and between Lulamisa and Crowthorne, including intensive PPP, Gauteng (Eskom)

Environmental Due Diligence Audit (EDDA) & Compliance report Audit for Daimler Crystler at 10 Mercedes dealerships in the Western Cape.



INDEPENDENT ENVIRONMENTAL CONSULTANT

Consultant for own and private companies, Ms le Roux was mainly tasked with issues related to the construction of affordable housing i.e. environmentally related issues, marketing, project management and administration. Additional private appointments were accepted for rezonings and for Integrated Waste License (and Environmental Authorisation) of two landfill sites.

2008-2014: ENVIRONMENTAL PROJECT MANAGER

Projects included:

Low cost housing construction projects in Soshanguve Ext2, Tembisa, Carletonville

Soweto infrastructure & rehabilitation, upgrading Super Block 5, Gauteng

Basic Assessment and Waste License Application for two landfill sites, DR JS Moroka, Mpumalanga

Basic Assessment and Rezoning Application for a filling station, Crown Mines area, Gauteng

Rezoning of rezoning of site from Residential I to the land use of "Special Business" Zeerust - - North West Province

Rezoning of properties from Residential 1 to Residential III for the purposes of townhouse development, including site design and layout of the proposed units, Zeerust - North West Province

Environmental expert advice for a legal case related to infringements during road construction.

AECOM/BKS (PTY) LTD

WATER DIVISION - DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

1996– 2008: LAND USE PLANNING & ASSESSMENT OF DEVELOPMENTS

Land use Planning & Environmental Management included the undertaking of research, impact assessments, EMPs, site audits, strategic planning and project management of the following projects form part of Ms le Roux's experience base:

EAP to determine and mitigate the impact assessment for the Spring Grove transfer scheme, KZN (Midlands Meander)

Environmental Control Officer & awareness trainer for the upgrading of roads in the Cradle of Humankind.

Researcher and Project Manager for the Social Audit of 10 Dams (DWAF). Included the design and implementation of questionnaires to determine the issues that individuals and families have after being relocated from farms where the dams were to be constructed.

Project Manager, Researcher and Impact Assessor for the Wonderboom Airport upgrade (lengthening of the runway) EIA

Project Manager, Researcher and Impact Assessor for the Upgrading of bulk water pipelines

Environmental Impact Assessor for the Rehabilitation of Lake Mzimgazi, Richard Bay

Researcher to design a strategy for the Formalisation of Cultural and Historical resources- Nkangala District Municipality

EAP input related to the development of Catchment Management Plans

Environmental feasibility research for Flow Monitoring at the Cowles Dam

ELURP (East London to Umtata Rail Project) Timber Siding assessment of impacts, mitigation

Impact Assessor & report author for 3 proposed dams in Sofala Province, Mozambique

Research and input for the Modder/Riet River Water Management Plan

Impact Assessor for the upgrading of the Royal Bafokeng Administration (RBA) sanitation facilities

Impact Assessor for the Lady Selborne Township development, Tswhane

Researcher and Impact Assessor for the Drainage Master Plan Project for Kampala (Uganda)

Blantyre, Malawi Water Supply Project: integration of specialist and engineering proposals into report

EAP for the Basic Assessment (upgrading of Nylstroom bulk sewer pipeline)

Impact Assessor for a new residential township, Phagameng

Cape Town Metropolitan Council (CMC): Coastal Park Landfill Site –EMP & contractors' specifications

Researcher and Report Writer for the Ethiopia Hydropower Supply Project

Compilation of the Nandoni Dam Relocation Action Plan: Budeli and Molenzhe

Khutsong (Carletonville) research and impact assessment for the allocation and development of a new cemetery.

Assessment of impact of the upgrading of the Lydenburg water treatment works

Impact Assessment study for the Leboeng WWTW, community centre and treatment works

Research and input for the Mphanama Sekukhuneland water supply system

Compilation and workshop for the Olifants River Environmental Water Requirements

Research and strategy for the N3 Toll Road Project from Heidelberg to Cedara, inclusive of an Industrial Parks concept.

Impact assessment for the N4 SA Truck load control: weigh bridges and lay-byes

N4 Mozambique Truck load control weigh bridges and lay-byes, discussions with Mozambican environmental officials

Research and design of questionnaires for the Algoa Water Augmentation Project, Report writing

Environmental screening of Kouga River, Guerna Dam

Strategy and impact assessment for the Olifants/Doring Rivers Water Augmentation: Western Cape

Impact assessment for the Paternoster, Western Cape: sewage Treatment Works

Strategic input for the Coega Port and Integrated Transport Study

Land use advisor for the development of the De Deur Sub-regional Cemetery

Land use advisor for the Lowveld Taxi Investigations for the EGSC

Research and questionnaires for a Cemetery Attitude Study - EGSC

Land use input for the Khayalami Metro Cemetery and Crematorium Land Development Objectives (LDO'S)

Southern Areas Sub-Regional Cemetery Facilities, for EGSC, including identification of suitable land, liaison with Council, role players and community representatives

Highveld Passenger Transportation Plan Mpumalanga Province: Input & recommendations on integration & planning of transport facilities

Researcher and land use advisor for the Hammanskraal-Pretoria Corridor for the Eastern Gauteng Services Council

Study, policy formulation, future planning proposals, marketing and presentations on Cemetery Planning and Management for the Department of Parks and Recreation of the City of Bloemfontein, Free State

Impact Assessment report for the Ponta D'Oura to Salamanga road rehabilitation project in Mozambique

LDOs for the Pietersburg/Polokwane TLC re Cemetery and Crematorium functions

Research & Land-use Planning input into National Noise Control Policy for the Airports Company

Marketing of Department of Environmental Planning, preparation of tenders.

FREE STATE PROVINCIAL GOVERNMENT:

DEPARTMENT OF HOUSING DIVISION OF LAND USE PLANNING

1993 TO 1996: LAND USE PLANNER

Responsibilities included applications for the Removal of restrictions, consolidations, subdivisions of land, permit applications, Settlement & Layout planning, rezoning, closure of streets, alterations to Scheme specifications & General Plans, Compilation of Urban Structure Plan, evaluation of geotechnical reports of the towns of: Kroonstad Viljoenskroon Welkom Sasolburg Vrededorst Kragbron Parys Bultfontein Deneysville Zamdela Metsimaholo Tlholong Tumahole Phahameng Kwakwatsi Mokwallo Rummulotsi Masilo Monyakeng Refenggotso



FREE STATE PROVINCE



Photo: Pieter le Roux