



Ecosurv Environmental Consultants **Company Profile**



“Reliable environmental **Solutions** for present and future challenges”

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Introductory Note

Thank you for the opportunity to introduce our company, Ecosurv Environmental Consultants. We hope that the literature in this document will provide the necessary information of who we are and how we can be of your service. If you have any questions, please do not hesitate to contact us.

We look forward to hearing from your organisation should any environmental services provision opportunities arise.

Kind regards,

Tshepo Phuthego
Director

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1. BRIEF HISTORY OF THE COMPANY

Ecosurv was established in 1987 to fill an urgent need for locally based environmental planning and advisory services. Company ownership is 100% citizen shareholding. We have concentrated our work almost entirely within the subcontinent and will continue this commitment. We have been involved in numerous Public and Private sector projects and have a good working relationship with our clients.

We have been actively involved in a wide variety of work since the company's inception, ranging from environmental planning, including policy and strategy development at national level, to resource management and environmental impacts at the local and community levels. The company has progressively become more involved in the social, cultural and archaeological aspects of resource use.

1.1 Overview of Company Structure and Legal Status

Ecosurv is a Botswana registered company (Certificate of Incorporation No. UIN BW00000414580). The Company carries a P3 million Professional Indemnity (PI) underwritten by Botswana Insurance Company Limited. Ecosurv is duly registered with the Public Procurement and Asset Disposal Board (Registration no. TBG 1/1494 and considered eligible to tender for Environmental Services (Code 313) under the following Sub-Codes:

- Sub code 01 Environmental Assessments
- Sub code 02 Archaeological Services
- Sub code 03 Environmental Engineering and Monitoring
- Sub code 04 Environmental Management Systems
- Sub code 05 Natural Resource Planning and Management
- Sub code 06 Environmental Policy and Legislation

Management: The Company is presently managed by T. Phuthego a citizen, and D. Parry, a permanent resident of Botswana.

Shareholding: Ecosurv is 100% citizen-owned.

National Operations: Ecosurv has been working on Botswana planning and environmental management since its inception in 1987. It is now the longest established environmental company in Botswana.

International Operations: Since the early 90's Ecosurv has been involved in international environmental projects. This component has grown and currently provides approximately 40% of turnover.

Operation: Ecosurv has a company code of conduct to which staff adheres.

1.2 Our Services

We provide the following environmental services:

- Environmental Assessment;

- Socio-Economic Services;
- Environmental Engineering & Monitoring.
- GIS/Remote Sensing;
- Protected, Natural Resource & Community Area Planning;
- Biodiversity Baselines & Planning;
- Environmental Policy;
- Audit and Supervision; and
- Archaeology & Cultural Heritage.

1.3 OUR VISION AND Mission

Vision

Ecosurv will be a distinctive, competitive and leading environmental company recognised both locally and internationally.

Mission

To provide quality environmental consultancy services at the forefront of the industry through up-holding our professional ethics and company ethos.

1.4 Present Staffing and Structure

The company's staffing (below-listed) stands at 10 professionals and 1 support member. The company is structured into 6 divisions namely, EIA, Sociology, Archaeology, Natural Resource Planning, Environmental Engineering and Accounts.

Director: Mr D. Parry, PEAP (*MSc, Tropical Resource Ecology*) is one of the founding staff of Ecosurv and boasts more than 30 years of experience. Skills include GIS, Remote Sensing, EIA, Programmes and Policy Development. He has extensive international experience in large project EIAs particularly in the power and water sectors. Mr Parry is registered with Botswana Environmental Association of Professional Practitioners as a Principal Environmental Assessment Practitioner (BEAPA No. 2013:0033).

Director: Mr T. Phuthago, EAP (*MSc, Environmental Science*). His skills include Management of project teams, Contracts management, Environmental Impact Assessment, Specialist studies (Stakeholder engagement, Socio-economic surveys, Social Impact Assessment, Resettlement Action Plans), Day to day management of the Company. He has more than 20 years working experience in training and environment. He is registered with Botswana Environmental Association of Professional Practitioners as an Environmental Assessment Practitioner (BEAPA No. 2016:0084).

Head of Environmental Studies: Mr L. P. Olesitse, PEAP (*MSc, Environmental Science*) joined Ecosurv in July 2010 as an Environmentalist. He is in charge of the environmental studies team (environmental assessment, environmental engineering, GIS and biodiversity studies) His core skills areas are Environmental assessment, Hydrology, Remote Sensing and GIS. He is registered with Botswana Environmental Association of Professional Practitioners as a Principal Environmental Assessment Practitioner (BEAPA No. 2013:0017).

Senior Environmental Engineer: Mr M. Ngwenya (*BA, Environmental Engineering-Ottawa*). He is registered with Engineers Registration Board as Registered Engineer (Registration # 20150176)

Senior Sociologist: Ms. S.C. Pansiri (MA, Development Studies)

Environmental Engineer: Mr T. Moseki (BA, Environmental Engineering-Ottawa). He is registered with Engineers Registration Board as Graduate Engineer (Registration # 20180297)

Environmentalism: Christinah Pheko, TEAP (BA, Environmental Science)

Intern (Environmental Studies): Ms K. Masene (BSc, Earth and Environmental Science - BIUST)

Intern (Sociology): Ms O. Bafenyi (BA, Environmental Science and Sociology - UB)

Intern (Sociology): Mr P. Malepa (BA, Environmental Science and Sociology - UB)

Admin Officer: Ms D. Seithamo: Ms Seithamo is responsible for office administration.

1.5 EQUIPMENT

Ecosurv operates out of an office of approximately 150 m² situated at Kgale Siding Office Complex (Gaborone). The offices have secure parking allowing storage of vehicles and equipment overnight. It contains:

- Communications with the office and between staff is good. We have two incoming call lines and cell phone router, a telephone exchange, a dedicated fax line and a separate ADSL line. All staff members use cell phones for their out of office activities. The company has three office cell phones on Mascom business accounts with full roaming facilities (through Directors' accounts). This allows links to key staff members anywhere in the world.
- We have a fully functional library and board room that can house 10 persons. The room has a whiteboard and multimedia equipment.
- A company has a library which contains a 20-year history of environmental and natural histories studies and information about Botswana. The library is continually updated and maintained on the server on an Access database. This database is searchable from all computers on the network.

Computer hardware immediately available within the company:

- 15 x workstation computers operating off a server hub.
- 5 x laptop computers all of which can operate under field conditions.
- Multimedia projectors.

Software available within the company comprises:

- All machines operating Windows 7 professional and Windows 2010 with Microsoft Office Professional suite. The system is protected with regularly updated E-Scan anti-virus software for networks.
- Specialized software includes, but is not limited to a) Idrsi software for digital satellite image processing, b) GIS software includes ArcView 3.2, Spatial analyst, ArcGIS 10 and Spatial Analyst for ArcGIS 9.2) SPSS Statistical Package. c) e) GPS Trackmaker (which allows direct interface between GIS coverage and Google Earth and a Garmin interface for direct interface between our GPS equipment and the GIS both static and real-time.

Other equipment:

- GPS: 5 x Garmin GPS
- 2 Digital cameras

- Printers: Networked duplex HP laser colour; HP colour DeskJet A3 and 2 x HP A4 LaserJet printers, 1 x colour HP LaserJet network printer
- Scanner HP A4-A1 flatbed (with up to date software for optical recognition)
- Report binding machine and associated stationary

Vehicles, company owned:

- Toyota Hilux 4x4 twin cab
- Toyota Land Cruiser
- Toyota Quest
- Toyota Avanza
- Off-road trailer
- Vehicles permanently hired under company vehicle ownership scheme: All senior professional staff receives a vehicle allowance that funds the use of their vehicles for company use. This allows all staff to be completely mobile and owners of good quality vehicles. There are 3 additional vehicles funded under this scheme.

Camping equipment:

- We have field tents, mattresses and basic camping equipment. Our policy is to hire rooms with electricity in most areas we operate to allow for after-hours use of equipment and preparation for field activities and consultations.

Environmental Engineering Equipment

Ecosurv is equipped to carry out environmental monitoring using approved monitoring equipment. We have the following equipment:

- Particulate Matter (PM₁₀ and _{2.5}) continuous sample complete with external power for offsite monitoring;
- Sound Level Meter for continuous noise monitoring (IEC approved); and
- Dust fallout monitoring buckets (ASTM D1739 compliant)

2. OUR CLIENTELE

Ecosurv has been offering Environmental Services for the past 30 years and we have built a broad clientele which includes private companies, public-listed companies, government and parastatals. Below are some of the clients we provide services to:



3. PROJECT EXPERIENCE

Environmental Assessment





Coal Bed Methane Project

3.1 STRATEGIC ENVIRONMENTAL ASSESSMENT (SEAs)









Project	Client	Status
Strategic Environmental Assessment for the Gaborone Fairgrounds Urban Design Master Plan Review and Landscape Design Master Plan		On-going
Strategic Environmental Assessment for the Francistown Urban Design Master Plan Review and Landscape Design Master Plan		Ongoing
Strategic Environmental Assessment for the Urban Design Master Plan Review and Landscape Design Master Plan for the Sir Seretse Khama International Airport Special Economic Zone (SSKIA-SEZ)		Completed 2019
Strategic Environmental Assessment of the Chobe Forest Reserves Management Plans		Completed 2018
Strategic Environmental Assessment of two protected area landscapes in Namibia (Mudumo and Waterberg) 2013 Strategic assessment of the proposed landscapes which are composed of protected areas and adjacent ecosystems.	Namibia Landscape Conservation Project	2013
Strategic Environmental Assessment for the Cubango-Okavango River Basin	Southern Africa Regional Environmental Program	Completed 2015
Strategic Environmental Assessment of the Okavango Delta Ramsar Site The SEA focuses on the Okavango Ramsar site but takes full	Department of Environmental Affairs, SAREP and the Ngamiland Land Board	Completed 2010

3.2 ENVIRONMENTAL, ARCHAEOLOGICAL AND SOCIAL IMPACT ASSESSMENT (EIAs)

Project	Client	Status
EIA for the Construction of a 110 MW Gas Piston Power Station For CENKAL and the Development of the CBM Gas Wellfield	 Sekaname (Pty) Ltd	Ongoing
Tlou Energy 20 MW CBM and 20 MW Solar EIA		Completed 2019

EIA and AIA Study for Minergy Coal Mine Project		Completed 2018
EIA Study for ENRC 600 MW Power Station in Palapye		Scoping On-going
EIA Study for Morupule B Phase II Unit 5 & 6 Power Station		Completed 2016
EIA for the Proposed Extension of the Orapa Mine Lease Area and Game Park		Completed 2016
EIA for Sechaba Energy Project 300MW Power Station and 400kv Powerline		Completed 2018
EIA for Sechaba Natural Resources – Lechana Colliery		Completed 2018
EIA for Tlou Energy Coal-Bed Methane Abstraction Plant		Completed 2016
ESIA for A-Cap Uranium Mine		Completed 2016
ESIA for a proposed Mabesekwa Coal Mine and 600 MW Coal Fired Power Plant		Completed 2016
EIA Study for Jwaneng Treated Waste Water Re-use Project		Completed 2016
EIA and AIA for Sese Integrated Power Project (SIPP)		Completed 2014
EIA and AIA for Wellfield 7 Development		Completed 2014
ESIA and AIA for the Letlhakane Mine Tailings Resources Treatment Project		Completed 2012

3.3 ENVIRONMENTAL MANAGEMENT PLAN (EMPs)

Project	Client	Status
Water Utilities Corporation Serowe Pipeline EMP	 We keep it flowing, for you.	Ongoing
Strata X EMP for CBM Project	 STRATA-X ENERGY	Completed 2019
Review and update of the EMP for the Orapa, Letlahane and Damtshaa Diamond Mines including the Early Works for Cut 3	 DEBSWANA	Completed 2019
EMP for Project at Debswana Jwaneng Mine <ul style="list-style-type: none"> Pit Slopes Depressurisation Phase III Project Jwaneng Contractors Camp Upgrade Project Magagarape Road Rehabilitation and Construction of a 33kV powerline Project 	 DEBSWANA	Completed 2018 Completed 2017 Completed 2020
EMP for Masama West Development Wellfield	 MMEWR MINISTRY OF MINERALS, ENERGY AND WATER RESOURCES	Completed 2017
EMP for GRP Replacement and Borrow Pit Extension	 BIGEN AFRICA	Completed 2015
EMP for Gaborone East 132/11kV substation Increase	 BOTSWANA POWER CORPORATION	Completed 2015
EMP for the 220/66kV Selebi Phikwe Substation Capacity Increase and Associated Transmission Works.	 BOTSWANA POWER CORPORATION	Completed 2015

Archaeological and Cultural Heritage Services



An arrow head tool discovered during an archaeological survey

3.4 ARCHAEOLOGICAL IMPACT ASSESSMENTS (AIAs)

Project	Client	Status
AIA for Kgale Quarries operation area extension		Completed
Archaeological Impact Assessment for the Urban Design Master Plan Review and Landscape Design Master Plan for the Sir Seretse Khama International Airport Special Economic Zone (SSKIA-SEZ)		Completed
Archaeological Impact Assessment of the Chobe Forest Reserves Management Plans		Completed
AIA for Masama West Development Wellfield		Completed
AIA for GRP Replacement and Borrow Pit Extension		Completed
Provision of Archaeological Investigation Services for Letlhakane Mine Tailings Resource Treatment Plant Project		Completed 2017
Archaeological Mitigation and Monitoring within the Orapa Mine Lease Extension		Completed 2017
Mahalapye Raw Water Pipeline and Water Storage Reservoir Archaeological Test Excavations		Completed
PS 4.1 Environmental, Archaeological and Social Monitoring	Bigen Africa for the Ministry of Minerals, Energy and Water Resources	Completed

Environmental Policy and Planning



3.5 ENVIRONMENTAL POLICY AND PLANNING




Projects	Client	Status
Lethakane DK1 Life extension-Concept Study (in Association with SRK)	DEBSWANA 	On going
Elephants Without Borders – Sanctuary Development Business Plan	Elephants Without Borders	Completed
Review and Update of Orapa Letlhakane and Damtshaa Mines Integrated Waste Management Plan	DEBSWANA 	On going
Air Quality Specialist Study for the Orapa, Letlhakane & Damtshaa Mines	DEBSWANA 	Completed 2016
Review and Update of the National Biodiversity Strategy and Action Plan	 D.E.A Empowered lives. Resilient nations.	Completed 2014
Convention on National Biodiversity Fourth National Report	Ministry of Environment, Wildlife and Tourism, Botswana	Completed 2009
Revision of the KAZA TFCA Development Framework for the Donor Conference		Completed 2007
Development of the State of Environmental Report (SOER) Sectoral Framework	National Conservation Strategy Agency	Completed 2006
Okavango Delta Management Plan (ODMP) Biodiversity: Ecosurv and The Royal Botanic Gardens,	Ministry of Environment, Wildlife and Tourism and Ministry of Agriculture	Completed 2007
Biodiversity Strategy and Action Plan: Ecosurv, together with IUCN Botswana prepared the National Biodiversity stocktaking, strategy and action plan	 D.E.A Empowered lives. Resilient nations.	Completed 2006
Establishment of a National Parks Board in Lesotho Park.		Completed 2013
Lake Ngami Management Plan		Completed 2012
NG 42 Land Use Management plan		Completed 2012
Land Use and Management Plan for Concession Areas CT 1-3		Completed 2011

Environmental Monitoring, Audit and Supervision



Noise monitoring at a proposed CBM Project

3.6 ENVIRONMENTAL MONITORING, AUDIT AND SUPERVISION

Projects	Client	Status
Shumba Energy Pre-Project Monitoring	 SHUMBA ENERGY Powering the Future	Ongoing
Debswana Jwaneng Mine Environmental Monitoring	 DEBSWANA	Ongoing
Water Utilities Corporation EMP Monitoring and Supervision at Mahalapye and Palapye water treatment works	 We keep it flowing, for you.	
Tlou Energy CBM Pre-Project Environmental and Social Monitoring	 TLOU ENERGY	Ongoing
Debswana Construction Noise and Dust Monitoring	 DEBSWANA	Completed 2019
Debswana Jwaneng Mine Dustfall Monitoring	Debswana Diamond Company  DEBSWANA	Completed 2019
BPC Dustfall Monitoring	 BOTSWANA POWER CORPORATION	Completed 2019
Minergy Coal Mine Project: Ambient Dust Monitoring	 minergy COAL (PTY) LTD	Completed 2019
PS 4.1 Environmental and Social Monitoring	 BIGEN AFRICA	Completed 2019
Environmental Monitoring for the Construction of the North South Carrier 2 Water Transfer Project	 BIGEN AFRICA  MMEWR MINISTRY OF MINERALS, ENERGY AND WATER RESOURCES	Completed 2016
Audit of existing Government Bulk Storage Facilities in Gaborone and Francistown This	 G4 CONSULTING ENGINEERS MECHANICAL & ELECTRICAL	Completed 2016
Lobatse Treatment Centre Groundwater Monitoring Programme	DE BEERS GROUP OF COMPANIES	Completed 2016