

List of Contents

CHAPTER 1: INTRODUCTION

- 1.1 BACKGROUND**
- 1.2 PURPOSE AND CONTENT OF THE DOCUMENT**
- 1.3 LEGAL REQUIREMENT**
 - 1.3.1 NATIONAL ENVIRONMENTAL MANAGEMENT ACT (ACT 107 OF 1998)
 - 1.3.2 THE NATIONAL WATER ACT (ACT NO 36 OF 1998)
 - 1.3.3 THE NATIONAL HERITAGE RESOURCES ACT (ACT 25 OF 1999)
 - 1.3.4 ADDITIONAL ACTS AND FRAMEWORKS
 - 1.3.5 ESKOM PLANNING PROCESSES
- 1.4 PROJECT TEAM**
 - 1.4.1 DETAILS OF THE ENVIRONMENTAL ASSESSMENT PRACTITIONER
 - 1.4.2 PROFESSIONAL TEAM

CHAPTER 2: PROJECT INFORMATION

- 2.1 NEED AND DESIRABILITY**
- 2.2 PROJECT INFORMATION**
 - 2.2.1 LOCALITY & REGIONAL CONTEXT
 - 2.2.2 PROJECT COMPONENTS & TECHNICAL INFORMATION
 - 2.2.3 SERVITUDE DETAILS
 - 2.2.4 METHOD STATEMENT
 - 2.2.5 DESIGN, CONSTRUCTION AND OPERATIONAL TARGETS

CHAPTER 3: ALTERNATIVES

- 3.1 NO GO ALTERNATIVE**
- 3.2 ROUTE ALTERNATIVES INITIALLY PRESENTED AND INVESTIGATED**
- 3.3 ROUTE DESCRIPTION OF MACRO AREA**
- 3.4 ROUTE CORRIDORS RESULTING FROM THE SCOPING PHASE**
- 3.5 DESCRIPTION OF THE ROUTE CORRIDORS PROPOSED FOR ENVIRONMENTAL AUTHORISATION**

CHAPTER 4: RECEIVING ENVIRONMENT

- 4.1 BIOPHYSICAL ENVIRONMENT**
 - 4.1.1 CLIMATE
 - 4.1.2 GEOLOGY, SOILS & GROUNDWATER
 - 4.1.3 SURFACE WATER
 - 4.1.4 VEGETATION
 - 4.1.5 FAUNA
 - 4.1.6 AVI-FAUNA
- 4.2 CULTURAL/HISTORICAL ENVIRONMENT**
 - 4.2.1 PALAEOLOGY
 - 4.2.2 ARCHAEOLOGY & CULTURAL HERITAGE

- 4.3 SOCIO-ECONOMIC, TOURISM AND LAND USE**
 - 4.3.1 LANDUSE
 - 4.3.2 SOCIO-ECONOMY AND TOURISM
 - 4.3.3 SOILS & AGRICULTURAL POTENTIAL
 - 4.3.4 VISUAL COMPONENT
- 4.4 SUMMARY ENVIRONMENTAL SENSITIVITY**

CHAPTER 5: PUBLIC PARTICIPATION

- 5.1 OBJECTIVES OF THE PUBLIC PARTICIPATION PROGRAMME**
- 5.2 PROCESS FOLLOWED**
- 5.3 ISSUES RAISED DURING THE SCOPING PHASE**
 - 5.2.1 WRITTEN COMMUNICATION WITH I&AP'S UP TO THE PUBLIC OPEN DAY
 - 5.2.2 MAIN CONCERNS RAISED AT THE PUBLIC OPEN DAY
 - 5.2.3 WRITTEN COMMUNICATION WITH I&AP'S DURING AND AFTER THE PUBLIC OPEN DAY
 - 5.2.4 WRITTEN COMMENT RECEIVED ON THE DRAFT SCOPING REPORT
- 5.4 ISSUES RAISED DURING THE EIR PHASE**
 - 5.4.1 COMMUNICATION WITH STAKEHOLDERS DURING THE EIR PHASE
 - 5.4.2 WRITTEN COMMENT RECEIVED ON THE DRAFT EIR
- 5.5 CONCLUSION OF PUBLIC PARTICIPATION PROCESS**

CHAPTER 6: IDENTIFIED IMPACTS AND PROPOSED MITIGATION MEASURES

- 6.1 METHODS USED TO IDENTIFY IMPACT**
- 6.2 ASSESSMENT OF IMPACTS ASSOCIATED WITH THE DEVELOPMENT**
 - 6.2.1 EXPECTED NEGATIVE IMPACTS
 - 6.2.2 EXPECTED POSITIVE IMPACTS
- 6.3 ENVIRONMENTAL MANAGEMENT PLAN**

CHAPTER 7: CONCLUSION

- 7.1 LEGAL REVIEW**
- 7.2 RECOMMENDATIONS BY THE EAP**

Appendices

Appendix A: Maps & Photos

- A(1) Locality Map 1:250 000
- A(2) Route Map of Corridor Alternatives initially investigated
- A(3) Route Map of Corridor Alternatives identified resulting from the Scoping Phase
- A(4) Route Map of Preferred and Alternative Route Corridor proposed for Environmental Authorisation
Co-ordinates of the Preferred Route Alternative
- A(5) Environmental Sensitivity Maps
 - Ecological sensitivity of the different identified vegetation units
 - Freshwater Constraints Map
 - SANBI National & Municipal Wetlands
 - SANBI Rivers & Catchments
 - SANBI National Protected Areas
- A(6) Photos of the Study Area

Appendix B: Technical Information

Appendix C: Status Quo Report – Applicable to Macro Study Area

- C(1) Engineering Geological Investigation
- C(2) Soils and Agricultural Potential Report
- C(3) Palaeontological Impact Assessment

Appendix D: Specialist Reports for the EIR Phase – Both Macro Area and Site Specific Study Areas

- D(1) Vegetation and Faunal Report
- D(2) Bird Impact Report
- D(3) Freshwater Assessment
- D(4) Heritage Impact Report
- D(5) Visual Impact Assessment Report
- D(6) Socio-Economic, Tourism & Land Use Potential Report

Appendix E: Public Participation Programme

- E(1) Background Information Document and Proof of Distribution
- E(2) Onsite Advertisements and Proof of Placement
- E(3) Newspaper Advertisements and Proof of Placement
- E(4) Written Communication with I&AP's during the initial advertising period
- E(5) Public Open Day:
 - Invitation to Public Open Day
 - Attendance Register
 - PowerPoint Presentation presented at the Public Open Day
- E(6) Written correspondence with I&APs during and after the Public Open Day
- E(7) Proof of distribution of Draft Scoping Report
- E(8) Written correspondence on Draft Scoping Report
- E(9) Proof of Distribution of Draft Environmental Impact Report
- E(10) Written Correspondence on the Draft EIR
- E(11) Lists of Stakeholders:
 - List of Government Departments
 - List of Municipalities
 - List of General Stakeholders
 - List of Directly Affected Landowners

Appendix F: Environmental Management Plan

Appendix G: Legal Review

- G(1) Legal Review of Scoping Report
 G(2) Legal Review of Environmental Impact Report

Appendix H: Company Profile and Curriculum Vitae's

- H(1) Landscape Dynamics Company Profile and condensed CVs of EAPs
 H(2) Condensed CVs of Specialists

LIST OF ABBREVIATIONS**GENERAL ENVIRONMENTAL TERMS AND ABBREVIATIONS**

BID	Background Information Document
CBA	Critical Biodiversity Area
DEA	National Department of Environment Affairs
DWS	National Department of Water & Sanitation
DMR	Department of Mineral Resources
EA	Environmental Authorisation
EAP	Environmental Assessment Practitioner
ECO	Environmental Control Officer
EIA	Environmental Impact Assessment
EMF	Environmental Management Framework
EMP	Environmental Management Plan/Programme
GA	General Authorisation
GNR	Government Notice Regulation
ha	Hectare(s)
HIA	Heritage Impact Assessment
I&AP's	Interested and Affected Parties
IEM	Integrated Environmental Management
m ³	Cubic metres
Mamsl	Metres above mean sea level
n/a	Not applicable
NEMA	National Environmental Management Act, 1998 (Act No 107 of 1998)
NEMPAA	National Environmental Management : Protected Areas Act, 2003 (Act No 57 of 2003)
NEMWA	National Environmental Management : Waste Act, 2008 (Act No 59 of 2008)
SAHRA	South African Heritage Resources Agency
SANBI	South African National Biodiversity Institute
PHRA	Provincial Heritage Resources Authority
PoS	Plan of Study
WULA	Water Use License Application

ELECTRICAL TERMS AND ABBREVIATIONS

Eskom (SOC)	South Africa's Electricity Supply Commission (A State Owned Company)
ICNIRP	International Commission for Non-Ionising Radiation Protection
IEP	Integrated Energy Plan
ISEP	Integrated Strategic Electricity Planning
NDP	Network Development Plan
NERSA	National Energy Regulator of South Africa
PV	Photovoltaic (as in solar panels)
<i>Voltage :</i>	
kV	Kilovolt (1kV = 1 000V)
MVA	Mega Volt Ampère
<i>Units of power :</i>	
kW	Kilowatt (1kW= 1 000W)
MW	Megawatt (1MW=1 000kW)