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 PALAEONTOLOGY
- 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
 - 5.3.1 WRITTEN COMMUNICATION WITH I&AP'S UP TO DISTRIBUTION OF DRAFT SCOPING REPORT
 - 5.3.2 MAIN CONCERNS RAISED AT THE PUBLIC OPEN DAY
 - 5.3.3 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 Locality Map 1:250 000 A(1) A(2)Route Map of Corridor Alternatives investigated during the site visit Route Map of Corridor Alternatives as amended during the site visit A(3)A(4) Route Map of Corridor Alternatives resulting from the Scoping Phase - Route Map of Preferred and Alternative Route Corridor proposed for Environmental Authorisation A(5)- Co-ordinates of the Preferred Route Alternative A(6) **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(7)Photos of the Study Area Appendix B: **Technical Information** Appendix C: Status Quo Report – Applicable to Macro Study Area **Engineering Geological Investigation** C(1) 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 Visual Impact Assessment Report D(5)D(6) Socio-Economic, Tourism & Land Use Potential Report Appendix E: **Public Participation Programme** Background Information Document and Proof of Distribution E(1) E(2)Onsite Advertisements and Proof of Placement E(3)Newspaper Advertisements and Proof of Placement E(4) Written Communication with I&AP's up to Draft Scoping Report E(5)Public Open Day: Invitation to Public Open Day Attendance Register PowerPoint Presentation presented at the Public Open Day E(6)Proof of distribution of Draft Scoping Report E(7)Written correspondence on Draft Scoping Report E(8) Comment received after submission of Final Scoping Report to DEA E(9)Proof of Distribution of Draft Environmental Impact Report

List of Government Departments List of Municipalities

List of General Stakeholders

List of Directly Affected Landowners

Written Correspondence on the Draft Environmental Impact Report

Appendix F: **Environmental Management Plan**

Lists of Stakeholders:

E(10)

E(11)

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 z Interested and Affected Parties

IEM Integrated Environmental Management

m³ 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)

Voltage:

kV Kilovolt (1kV = 1 000V) MVA Mega Volt Ampére

Units of power:

kW Kilowatt (1kW= 1 000W) MW Megawatt (1MW=1 000kW)