

 Eskom	Environmental Management Programme	Transmission
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Initials and Surname	Initials and Surname	Initials and Surname
Designation	Designation	Designation
Date:16/08/2024	Date:16/08/2024	Date:16/08/2024

Project Details

Site Name: Britskop RS and
Uitvalskop RS

Project Title:

“Supply, delivery, installation,
commissioning of batteries
and provision of training:
Lithium iron phosphate 48
VDC for Britskop and
Uitvalskop radio sites.”

Project Manager: Sandy
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1. Introduction

Provide an introduction and the background of the project. This should also include the project description and high-level scope of work. This section can also include the motivation of the project.

2. Supporting Clauses

2.1 Scope of the EMPr

Supplier to provide proposals for the supply and delivery of lithium iron phosphate batteries at Britskop RS and Uitvalskop RS (2 x battery banks per site), lithium battery cabinets, battery management system, battery anti-theft monitoring mechanism (as an option), installation, commissioning, and technical support of the products.

Supplier proposal to meet the DC requirements as detailed below for Britskop RS and Uitvalskop RS.

Radio site Information

Radio Site Information for Britskop RS and Uitvalskop RS

	Britskop RS	Uitvalskop RS
Site Owner or contact person	Vossie Smit	Vossie Smit
Contact no.	083 264 2530	083 264 2530
Site coordinates	26°45'58"S, 26°57'00"E	27°16'57.9"S, 24°55'38.5"E
Vehicle Access	LDV	Bakkie 4 x 2
Closes Town	Potchefstroom	Amalia

Existing DC System Installed

Both sites have Dual DC system (battery and charger) installed. **Main 1** and **Main 2**.

Batteries

Main 1: Battery Bank	Britskop RS	Uitvalskop RS
Battery type	Lead Acid - Vented	Lead Acid - Vented
Battery manufacturer	Hoppecke 18 OSP.HC 1890	Hoppecke 15 OSP HC 1275
Number of cells per bank	24	24

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Capacity (A/hr)	1900 A/hr @ C10	1350 A/hr @ C10
Standing Load (A)	40.9A	23A
Standby Time (hours)	44 Hrs	70 Hrs
Battery commission date	2016/01/01	2017/11/20

Detailed Scope of work please refer to the following document number 559 - 202871455

NB: This EMPr document only caters for the scope of work contained in it. Any activities outside the given scope of work will need to be addressed through the correct process (i.e., method statements).

2.1.1 Purpose

2.1.2 Applicability

This document shall apply throughout Eskom Transmission.

2.1.3 Effective date

N/A

2.2 Normative/Informative References

2.2.1 Parties using this document shall apply the most recent edition of the documents listed in the following paragraphs. Normative

[1] ISO 9001 Quality Management Systems

[2] ISO 14001 Environmental Management System

These documents are indispensable for the application of this document, i.e. documents to be used together with this document.

2.2.2 Informative

[3] National Environmental Management Act, 1998 (NEMA) (Act No 107 of 1998), and all amendments and supplementary listings and/or regulations.

[4] Environment Conservation Act, 1989 (ECA) (No 73 of 1989) and amendments.

[5] National Environmental Management: Waste Act, 2008 (NEMWA, Act 59 of 2008).

[6] National Environmental Management: Biodiversity Act, 2004 (NEM:BA) (Act No. 10 of 2004) and amendments.

[7] National Forest Act, 1998 (NFA) (No 84 of 1998).

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[8] *National Veld and Forest Fire Act, 1998 (Act No. 101 of 1998).*

[9] *Conservation of Agricultural Resources Act, 1983 (CARA) (Act No. 43 of 1983) and amendments.*

[10] *National Heritage Resources Act, 1999 (Act 25 of 1999).*

[11] *National Water Act, 1998 (Act 36 of 1998).*

[12] *The Occupational Health and Safety Act, 1993 (Act No. 85 of 1993).*

[13] *The National Fencing Act, 1963 (Act No 31 of 1963) as amended by Act 108 of 1991.*

[14] *The National Environmental Management: Protected Areas Act, 2003 (Act No. 57 of 2003) and its Regulations.*

[15] *The National Environmental Management: Air Quality Act, 2004 (Act 39 of 2004).*

[16] *South African National Standard (SANS) 10228 – The identification and classification of dangerous goods.*

2.3 Definitions

Include all definitions applicable to this document, in alphabetical order. Explain all terms used, including documents, titles and departmental references that may cause confusion if not explained.

Definition	Explanation

2.4 Abbreviations

Provide explanations of terms and abbreviations including documents, titles and departmental references that may cause confusion if not explained, and that are used in this document.

Abbreviation	Explanation
RS	Radio Site
NTCSA	National Transmission Company of South Africa

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2.5 Roles and Responsibilities

FUNCTION	ROLES AND RESPONSIBILITIES
Eskom Environmental Practitioner	To ensure that the Environmental Management Programme (EMPr) for the project is compiled and approved. To ensure that all conditions stipulated in the EMPr are met. To conduct audit, monitor or provide assurance before, during and post construction
Eskom Project Manager/ Site Manager	Ensure that implementation of EMPr is executed as planned. Ensure that conditions in this EMP are fulfilled before the contractor occupies the site.
Contractor Environmental Officer (CEO)	Ensures that all Sub-contractors (if any) working under the Principal Contractor abide by the requirements of the EMPr. Be on site throughout the duration of the project and be dedicated to the project. Ensure all staff are aware of the environmental requirements, conditions and constraints with respect to all of their activities on site. Implementing the environmental conditions, guidelines and requirements as stipulated within the EMPr and Method Statements Attend and provide performance status at the project progress and Environmental site meetings. Facilitate and undertake corrective actions where non-compliances are registered within the stipulated timeframes Assist the Eskom environmental practitioner in maintaining all the site documentation Prepare site inspection reports and corrective action reports for submission to the Eskom
Contractor Project Manager/ Site Manager	To provide all necessary supervision during the execution of the project. He/ She should be available on site all the time To appoint a competent Environmental Officer To ensure that implementation is conducted in an environmentally acceptable manner

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	To fulfil all obligations as per the agreed contract To inform and educate all employees about the environmental risks associated with the different activities that should be avoided during the construction process and lessen significant impacts to the environment.
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2.6 Process for Monitoring

Monitoring and maintenance process will be done through Audits and Inspections.

2.7 Related/Supporting Documents

Refer to the following documents for the tender requirements:

- Transmission Environmental Management Tender Returnable Document
- Contractor Environmental Requirements Proforma
- Scope of work 559- 202871455

3. Document Content

3.1 Geographical Site Location and Environmental Condition

3.1.1 Radio Site Information for Britskop RS and Uitvalskop RS

	Britskop RS	Uitvalskop RS
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Site Owner or contact person	Vossie Smit	Vossie Smit
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Vehicle Access	LDV	Bakkie 4 x 2
Closes Town	Potchefstroom	Amalia

3.2 Public Involvement/Participation Process

The potential environmental impacts associated with the proposed project are required to be considered in compliance with the Environmental Impact Assessment (EIA) Regulations of 2014 (As amended) published in Government Notice R982 to R985 on, in terms of Chapter 5 of the National Environmental Management Act, 1998 (Act 107 of 1998) (as amended). The above scope of work was assessed against the Listing Notices of the EIA Regulations 2014 and the following is noted:

- That the Project does not trigger EIA process as per the above-mentioned regulations.

3.2 Project Specific Scope of Work and Design

Refer to Document number 559- 202871455 for a detailed scope of work.

4. Acceptance

This document has been seen and accepted by:

Name	Designation
Transmission Group BUERs	All Transmission Group BU's

5. Revisions

Note: Start with the latest Revision History in the first row and go backwards.

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Date	Rev.	Compiler	Remarks
December 2015	1	Jeanine Burger	New document
December 2017	2	Silindile Mbhele	Alignment to ISO 14001:2015 Standard
March 2024	3	Tshinanne Mutshatshi	Standardisation of EMPr templates

6. Development Team

The following people were involved in the development of this document:

- Tshinanne Mutshatshi
- Angel Khumalo
- Penelope Spelimandla
- Adrian Francis
- Fulufhedzani Mashitoa
- Vuyokazi Buckland
- Obakeng Moroka
- Luckyboy Isaac
- Nombulelo Mabena

7. Acknowledgements

Note: Acknowledgements to all those who had contribution to the standardization of the EMPr d

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Table 1: Project Specific Environmental Controls

This section specifies standard mitigation measures to be followed by the parties responsible for environmental management during the construction of the project.

Note: An activity may have multiple aspects that might need to be looked at

No.	Activity	Aspect	Impact	Management Objective	Mitigation Measure	Measurable Targets	Frequency of Action	Responsible Party
1.	Transportation of Lithium batteries	Gas/smoke emissions from the lithium batteries	Air pollution	Batteries are delivered without defects	Vehicle or Container should be made of materials which do not spread fire Inspection of Pre and Post when transporting Personnel should be trained on handling and transportation of Lithium batteries and valid permits	0 Gas Smoke Emission from the Lithium batteries	Before Transportation takes place	Eskom & Contractor
2	Recycling of Lithium batteries	Disposal of Lithium Batteries	Landfill, Air, Soil and water contamination, Air pollution when batteries cause fires	Batteries are delivered without defects	HCS regulations, National Water Act No. 36 of 1998 Proper disposal of Lithium batteries	Provision of Disposal Certificate 0 Carbon Emissions	Check batteries are in good condition	Eskom & Contractor

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