

	<b>Generation Environmental Service Panel Scope of Work</b>	<b>GENERATION</b>
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Title: The provision of environmental and related specialist services to Generation Division on an as and when required basis, for a period of five (5) years.

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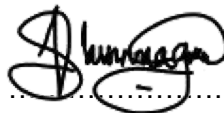
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## **1. Introduction**

Generation Division identified a need for environmental and related specialist services panel. The panel is required to access external skills and experience, where the same scope of work is regularly required for a specific range of services. It will be sourced through open market participation to provide these services as per the scope of work. The services are required on an as and when required basis for a period of five (5) years and will be undertaken under three panels, namely A, B, and S (Environmental Specialists). Service Providers can tender for Panel A and S or Panel B and S or Panel A or Panel B or Panel S.

Prospective service providers may offer proposals for any of the areas of scope, or all of the scope defined below:

- Environmental impact assessment (inclusive of monitoring and compliance).
- Environmental control officer services.
- Environmental management plans/programmes.
- Water use licence application.
- General authorisation.
- Environmental legal audits.
- Environmental related specialists' services.
- Public participation services.
- Waste management licences.
- Biodiversity offset.
- Emission licensing and reporting.

## **2. Supporting Clauses**

### **2.1 Scope**

#### **2.1.1 Purpose**

The purpose of the document is to define the scope of work for Generation Environmental Panel.

#### **2.1.2 Applicability**

This document shall apply throughout Generation.

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### 2.1.3 Effective date

This document shall be effective once authorised.

## 2.2 Normative/Informative References

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

### 2.2.1 Normative

- [1] ISO 9001 Quality Management Systems - Requirements
- [2] ISO14001 Environmental Management Systems – Requirements with Guidance for Use
- [3] ISO 45001 Occupational Health and Safety Management Systems – Requirements with Guidance for Use
- [4] Occupational Health and Safety Act
- [5] National Environmental Management Act (Act No. 107 of 1998) as amended
- [6] Electricity Act of 2006, as amended

### 2.2.2 Informative

- [7] ISO 9000 Quality management systems – Fundamentals and vocabulary
- [8] ISO 9002 Quality management systems – Guidelines for the application of ISO 9001:2015
- [9] ISO 28000 Supply Chain Security Management System Standard
- [10] ISO 31000 Risk Management - Principles and guidelines
- [11] ISO 9004 Quality Management System – Quality of an organisation - Guidance to achieve sustained success
- [12] 32-1034 Eskom Procurement and Supply Chain Management Procedure

## 2.3 Definitions

All definitions related to the Management Systems are defined in ISO 9000 for Fundamentals and vocabulary as well as ISO 14001

## 2.4 Abbreviations

Abbreviation	Explanation
ISO	International Organisation of Standardisation
H&S	Health and Safety
Gx	Generation

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Abbreviation	Explanation
QMS	Quality Management System
SHEQ	Safety Health Environment and Quality

## 2.5 Roles and Responsibilities

The parties or stakeholders responsible (R) and accountable (A) or to be consulted (C) and/or informed (I) relative to the implementation of this document are defined on RACI Matrix below:

RACI Matrix				
Process Step/Activity	Generation Environmental Management Head Office	Generation Environmental Management Power Stations/ end-user	Contract Manager	Service provider
Document compiler in consultation with stakeholders	R, A	C	R	
Provide technical support/evaluation and ensure environmental service panel is in place	R, A	I	R	
Requests and make use of environmental service panels where needed	R	R	C,I	
Executes the scope as per defined scope of work	I	C,I	A	R
Reviews the work executed by the Contractor for acceptance and provides Project Management, Contract Management and Payment functions in accordance with the scope of works and the contract	C,I	C,I	A, R	I

## 2.6 Process for Monitoring

The effectiveness of scope of work will be monitored through management review, meetings, self-assessments and internal audits.

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## 2.7 Related/Supporting Documents

Not Applicable

## 3. Environmental Scope of Work

### 3.1 Environmental Services

Environmental services will be sourced throughout Generation Division. The provision of Environmental services and associated services required for the Generation business are indicated in the Table 1.

**Table 1: Environmental services required**

Services( Panel A and B)
<ul style="list-style-type: none"><li>• Environmental compliance audits.</li><li>• ISO 14001 peer reviews.</li><li>• Environmental impact assessment.</li><li>• Basic assessment.</li><li>• Integrated waste management licence applications.</li><li>• Integrated water use licence applications</li><li>• General authorisation.</li><li>• Environmental management plans/ programmes.</li><li>• Emission licencing and reporting, opinion and advice.</li><li>• Public participation.</li><li>• Rectifications and amendments of authorisations.</li><li>• Strategic environmental assessment.</li><li>• Relevant specialist studies.</li><li>• Environmental control officer services.</li></ul>
Specialist Services (Panel S)
<ul style="list-style-type: none"><li>• Air quality studies.</li><li>• Air quality dispersion modelling.</li><li>• Air quality offset development and implementation.</li><li>• Aquatic ecology.</li></ul>

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- Biodiversity and wetland offset studies.
- Biodiversity management / flora and fauna.
- Bird and bat monitoring for renewable energy facilities.
- Bird/bat avifaunal studies.
- Biomonitoring
- Climate change assessment.
- Community engagement / public participation.
- Contaminated land studies.
- Biodiversity offset strategy development.
- Biodiversity Stewardship development and land tenure.
- Dust fall out monitoring.
- Ecology including animal and vegetation relocation services, plant and animal search and rescue.
- Effluent management.
- Environmental screening.
- Environmental compliance audits (waste, water, air, biodiversity).
- Environmental cost benefit studies.
- Emission inventory management and reporting.
- Ground water and surface water modelling and monitoring.
- Heritage / archaeological palaeontology / cultural landscape / visual.
- Legal registers
- Minimum emissions standards compliance, support and advisory services
- Noise monitoring.
- Passive air sampling.
- Resettlement planning.
- Rehabilitation plans and management
- Socio-economic studies.
- Terrestrial ecology.
- Traffic impact assessment.
- Town planning study.
- Visual impact assessment.
- Waste classification.

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- Water analysis.
- Water balance modelling.
- Water impact study.
- Wetland assessments and delineation.
- Other specialist studies as required.

### **3.2 Track record**

The Service Providers will be required to demonstrate their capability and capacity by showing a track record of abovementioned environmental services of at least 3 years or more.

The minimum 3 years track record will be for Panel B while Panel A and S will be 5 years or more.

The appointment of service providers will be in the form of a panel and the panel structure will consist of three panels (A, B and S) which are allocated to suppliers according to the capability evaluation of the RFP. See below.

#### **PANEL A**

Panel A is segmented into generalists who provide fully capable suppliers for large scale and /or complex projects. Panel A suppliers are typically national or global industry leaders with the capability to carry out large scale generalist or specialised work. These companies should have resources with minimum of **5** years in provision of environmental services.

#### **PANEL B**

Panel B is segmented into generalists who provide fully capable suppliers for medium to low scale projects. These companies should have resources with minimum of **3** years in provision of environmental services.

#### **PANEL S**

Panel S is a specialist panel that consists of specialised companies or qualified individuals. Panel S will have a direct access to specialised services. The panel will comprise of highly technical individuals or companies with at least **5** years in provision of a specialised area service. Panel S members can be accessed directly to provide a specialist service or subcontracted to perform a portion of specialized work through Panel A or Panel B member.

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### **3.3 Certification**

The service providers must demonstrate that they conform to ISO Management Systems (SHEQ) requirements. Furthermore, they must be registered to at least one Environmental or related Specialist Registration Body.

### **3.4 Technical Skills**

The service providers must:

- have employees or have access to employees with Environmental, and/or related qualifications and exposure in the Power/ Electricity and or Construction Industry.
- include Curriculum Vitae for personnel per services within the company.
- note that where required by legislation, personnel who will render these services shall have valid professional registrations with respective professional bodies.
- note that all required personnel shall be competent with the required qualifications and have the required knowledge, training and experience specific to the work, service or task.

### **3.5 Experience (Environmental)**

The service providers must demonstrate environmental and related environmental specialist experiences in site EIA's, Water Use Licence Applications, Waste Management License and relevant specialist services and be able to identify additional legal requirements that may from time to time change with legislation or geographical locations.

### **3.6 Reporting and Software**

Reporting requirements will be covered in a detailed tender enquiry document. Service Provider must have software system (s), which they use to execute Eskom's scope of work.

## **4. Acceptance**

This document has been seen and accepted by:

<b>Name</b>	<b>Designation</b>
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Name	Designation
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Rosetta Rammutla	Middle Manager: RAS CoE
Warren Funston	Middle Manager: Biodiversity and Waste CoE
Power station Generation Environmental	Environmental Managers
Group Capital	Environmental Practitioners

## 5. Revisions

Date	Rev.	Compiler	Remarks
December 2023	4	Mpho Muswubi	Incorporated comments received from Group Capital
June 2023	3	Mpho Muswubi	Incorporated comments received from Commercial Panel Office
December 2022	2	Mpho Muswubi	Incorporated additional comments received from GEM
November 2022	1	Mpho Muswubi	Incorporated comments received from GEM
August 2022	0	Mpho Muswubi	New document

## 6. Development Team

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

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## 7. Acknowledgements

This document has been developed with input from following Generation Environmental Representatives:

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- Generation Environmental Management
- Generation Environmental Practitioners

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