

Title	MPR Project
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Revision	1

APPROVAL & DISTRIBUTION

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1 PURPOSE

The purpose of this Scope of Work is to define the scope, deliverables, and performance requirements for the provision of Contract Advisory Services to the MPR Project and other construction related projects, in support of the organisation's transition to the NEC4 contract framework. The SOW establishes a structured approach to contract management, ensuring consistency, compliance with regulatory and organisational requirements, effective risk management, and the successful delivery of project objectives.

2 REFERENCES AND ABBREVIATIONS

2.1 References

This document refers to the following documents:
None

2.2 Abbreviations

Abbreviation	Description
SOW	Scope of Work
MPR	Multi-Purpose Reactor
NEC4	New Engineering Contract, 4th Edition
PMO	Project Management Office
SCM	Supply Chain Management
QA	Quality Assurance
SHEQ	Safety, Health, Environment and Quality
ITB	Invitation to Bid
QMS	Quality Management System

2.3 Definitions

Term	Description
Compensation Event	An NEC4 contractual mechanism used to manage changes that may affect the contract price or completion date

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Term	Description
Stakeholders	Individuals or groups with an interest in or influence over the project and its outcomes

3 OVERVIEW

The South African Fundamental Atomic Research Installation 1 (SAFARI-1) Research Reactor has been instrumental in advancing South Africa’s nuclear infrastructure and research over the past 59 years. Located at the Pelindaba site of the South African Nuclear Energy Corporation SOC Limited (Necsa), this 20 MW (thermal) multi-purpose tank-in-pool reactor first achieved criticality on March 18, 1965.

SAFARI-1 is internationally recognized as one of the most utilised and oldest research reactors, thanks largely to its dedicated personnel who uphold the highest quality and safety standards. Currently, SAFARI-1 is primarily used for producing Molybdenum-99 and other radioisotopes. Molybdenum-99 is the precursor for Technetium-99m, a vital medical isotope used in over 40 million nuclear medicine procedures globally each year. SAFARI-1 also supports the R&D group on beam line research and development of new radiation-based products.

In 2025, SAFARI-1 will celebrate its 60th anniversary. Its operations are supported by an Ageing Management Program designed to ensure safe and reliable operation of the facility and to extend its operational life beyond 60 years. However, there is a recognized need to plan for its successor in light of significant technological advancements in research reactors and applications.

In September 2021, the South African Government (Cabinet) approved the establishment of the Multi-purpose Reactor (MPR) project. A Ministerial Task Team (MTT) was formed in 2019 to oversee the development of the MPR project. Since its inception, the project has achieved several key milestones:

- Completion of the Project Initiation Report
- Completion of the Pre-feasibility Study Report
- Completion of the Feasibility Study Report, which has successfully undergone a mandatory Gateway Review

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4 OBJECTIVE

Necsa is transitioning from traditional contracting models to the NEC4 contract framework and requires the appointment of a suitably qualified and experienced Contract Advisor to support this transition. The objective of this appointment is to provide specialist advisory and contract management services to facilitate the effective implementation and administration of NEC4 contracts for the MPR project and other construction related projects at Necsa.

5 SCOPE DESCRIPTION

This section defines the detailed scope of services, exclusions, and expected deliverables for the provision of Contract Advisory Services for the MPR Project.

5.1 Scope of Services

The appointed Service Provider shall be responsible for, but not limited to, the following:

- Establishing and implementing an NEC Contract Management System tailored to the requirements of the MPR project
- Supporting the development, standardisation, and implementation of NEC compliant processes, procedures, and documentation
- Providing ongoing contract management advisory services on an as-and-when enquired basis

5.2 Key Responsibilities

The Contract Advisor's responsibilities will include, but are not limited to:

- Establishment of a contract management system
- Assisting with the preparation and drafting of NEC4 contract documents
- Supporting the management and administration of NEC4 contracts throughout their lifecycle
- Providing guidance on compliance with NEC principles, processes, and best practices
- Advising on contract risk management, early warning processes, and compensation events
- Supporting dispute avoidance and resolution in line with NEC provisions

5.3 Deliverables

The Service Provider shall deliver:

- A functional and documented NEC Contract Management System

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- Standardised NEC processes and procedural guidelines
- Advisory reports and recommendations as required
- Ongoing contract administration support and guidance

5.4 Exclusions (Out of Scope)

The following activities are excluded from this Scope of Work unless otherwise formally approved:

- Contract advisory during construction phase
- Final decision-making authority on procurement or contract awards

5.5 Duration and Level of Effort

- The services shall be provided for a period of up to three (3) years
- Engagement will be on an as-and-when-required basis
- Support audits and compliance reviews.

6 REQUIREMENTS

This section defines the detailed technical, functional, and compliance requirements applicable to the Contract Advisory Services

6.1 Technical/Functional Requirements

The Service Provider shall:

- Demonstrate proven experience in NEC4 contract advisory services
- Provide qualified and accredited NEC4 professionals
- Provide list of similar contract advisory services provided in the past 5 years
- Ensure all deliverables are technically sound, Fit-for-purpose & aligned with project requirements

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6.2 Performance Requirements

The Service Provider shall meet the following performance criteria:

- Advisory response time: ≤ 5 working days
- Deliverables acceptance rate: $\geq 95\%$
- Compliance with NEC4 processes: 100%
- Adherence to project schedule milestones: $\geq 100\%$

7 AUTHORISATION

This Scope of Work (SOW) is hereby approved as a true and accurate reflection of the agreed scope, deliverables, and requirements for the provision of Contract Advisory Services for the MPR Project at NECSA.

By signing, the authorised representatives confirm their acceptance of the scope and commit to the execution of the work in accordance with the terms and conditions outlined in this document

8 Revision History

This document has been revised in accordance with the following schedule:

Rev. No.	Date approved	Nature of Revision	Prepared
1.0	See title page	First issue.	NO Manonyane