

KOEBERG OPERATING UNIT

PROCUREMENT QUALITY ENGINEERING (NUCLEAR COMMERCIAL)

TITLE: PROVISION OF NUCLEAR QUALITY MANAGEMENT SERVICES [QUALITY ASSURANCE (QA) AND/OR QUALITY CONTROL (QC)] ON AN AS AND WHEN REQUIRED BASIS FOR THE KOEBERG OPERATING UNIT.

ENQUIRY NUMBER:PREPARED BY: 

Philisile Zwane

REVIEWED BY: 

Shandr  Brown

APPROVED BY: 

Phindiwe Xotyeni

DATE: 2024-10-23

Reference	Rev	Page
PQP 24487	0	Page 1 of 6

Table of Contents

1.	DESCRIPTION.....	3
2.	SCOPE OF WORK.....	3
3.	QUALITY REQUIREMENTS.....	6
4.	REFERENCES.....	6
5.	DOCUMENTATION.....	6
6.	APPENDICES.....	6

1. DESCRIPTION

Nuclear Quality Management Services are required in Nuclear Commercial in order to perform the required supplier monitoring to meet Eskom's and the requirements of RD-0034 during and after the procurement process at the Koeberg Operating Unit (KOU).

2. SCOPE OF WORK

Eskom Holdings SOC Limited has a need for nuclear quality management and inspection services on an as and when required basis, for the Koeberg Operating Unit (KOU)

The scope of work is as follows:

A. The Quality Assurance (QA) services include supplier monitoring (audits; surveillances; assessments) to be performed locally to South Africa.

B. The Quality Control (QC) services include inspections to be performed at manufacturing sites in various countries internationally.

The strategy is to conclude a contract for whole or part of the works, that is quality assurance services and/or quality control services.

2.1 Quality assurance services

2.1.1. Provide Quality Assurance (QA) service as follows:

- Conduct Quality Management Systems (QMS) audits, surveillances, and assessment services in accordance with Eskom procedure 238-105.
- Lead team members and carry out supplier capability assessments, surveillances, and audits.
- Ensure that the defined level of quality is achieved by measuring, auditing, reporting, and implementing necessary actions to resolve quality issues.
- Reviews supplier interface arrangements with their sub-suppliers to ensure compliance to Employer requirements, that arrangements are sufficiently documented and implemented, report deviations and propose improvements.
- Lead team members and carry out audits on the quality management systems of sub-suppliers against international standards and contract requirements; and
- Control and report on the closing of the Non-conformance Reports (NCR) and Corrective Action Reports (CAR).
- Participate in contract quality and progress meetings.
- Ensure action plans are prepared on quality related issues that may arise during the contract.
- Ensure that adequate training on processes, tools, and procedures applicable to meet contract quality requirements.
- Execute all planned QA activities; and

Reference	Rev	Page
PQP 24487	0	Page 3 of 6

- Ensure contract quality requirements are adhered to and that adequate levels of QA oversight are applied.
- Provide auditing skill transfer and training to employer's staff in nuclear quality assurance and supplier monitoring.

2.1.2 Qualification and Experience

The *Consultant* shall employ individuals with the following specific qualification, experience, and knowledge:

- 5 years technical experience in nuclear industry
- 3 years' experience in quality management in the nuclear industry.
- Registered Lead auditor - QMS
- For nuclear works, thorough knowledge of ISO 9000 series of standards, Nuclear Quality Management Standards such as ASME NQA-1, IAEA-GSR- part 2; RD0034 and other nuclear standards as applicable.
- Proficiency in conversational and written English.

2.2 Quality control services (International)

For quality control activities, ISO 17020 applies, and additional information related to the specific activity will be detailed in the task order.

2.2.1 Description of services to be performed by the *Consultant*

- Perform source verification (QC Surveillance and inspections) at the Employer's supplier premises and/or manufacturing sites internationally.
- Review all quality control documents such as Quality Control Plans (QCP), QC procedure, QC checklists and Quality Assurance Data Packages (QADP) etc. and recommend improvements to the supplier and acceptance/rejection to the Employer.
- Recommend "stop work" orders if quality and safety standards are compromised.
- Review and recommend approval/rejection on identified deficiencies.
- Control the close-out of deficiencies by reviewing and recommending initiatives, proposals, or corrective actions for improvements.
- Prioritise activities for quality control verifications.
- Implement and control QC processes by reviewing all documentation and system information and validate information to maintain accurate data; and
- Perform/check/control job observations.
- Perform inspections and determine if standards and specifications are met. Identify and report non-compliances. Recommend possible changes to standards or practices.
- Assess, monitor, and report good and sub-standard work practices.
- Verify that suppliers comply with quality requirements.
- Verify that equipment meets specification requirements.

Reference	Rev	Page
PQP 24487	0	Page 4 of 6

- In case of any con compliance initiates specific actions.
- Check that products and services provided are as per contract requirements; and
- Verify that documentation conform to requirements and standards by reviewing work packages, plans, procedures, and modification packages according to the relevant administrative controls. Identify and report non-conformances.
- Pay particular attention for counterfeit, fraudulent or suspect items
- Provide advice and assistance with regard to procedures and work practice improvements.
- Provide advice with regards to rules, regulations, and code requirements.
- Liaise with Employer personnel with regard to queries and
- Conduct presentations/training on quality control practices.
- Check that all QC documentations are updated and correct.
- Compile, review and / or approve procedures, standards, and checklists.
- Record, trend, and report quality deficiencies.
- Ensure contract quality requirements are adhered to and that adequate levels of QC oversight are applied.

2.2.2 Qualification and Experience

The *Consultant* shall employ QC individuals with adequate technical skill, qualification, and experience for the required scope of work as detailed in the Contract. The *Consultant* will submit the CVs of the proposed personnel for acceptance prior to the issuing of a task order by the *Employer*.

For QC scope, the following specific qualifications, experience, and knowledge are required:

- 5 years technical experience in nuclear industry
- 5 years' experience in Quality Control activities (Mechanical, Electrical, NDT, Material Science, Welding, etc. Proficiency in conversational and written English

Reference	Rev	Page
PQP 24487	0	Page 5 of 6

3. QUALITY REQUIREMENTS

The QA supplier shall employ a QMS that is certified to the requirements of ISO9001:2015.

The QC supplier, ISO 17020 certification applies, and additional information related to the specific inspection activity will be detailed in the task order.

4. REFERENCES

As per Contract

5. DOCUMENTATION

As per Contract

6. APPENDICES

None

Reference	Rev	Page
PQP 24487	0	Page 6 of 6