

SCOPE OF WORKS

1 Background and Proposed Solution

Foskor (Pty) Ltd Acid Division is in Richards Bay, Kwazulu-Natal. In the coastal city of uMhlatuze, in the area known for its huge industrial development and harbor export facilities.

The Company produces Phosphoric Acid from Phosphate Rock that is mined at Phalaborwa and transported to Richards Bay for processing. Phosphate Rock has low levels of Naturally Occurring Radiation but during Phosphoric Acid production, the radiation levels in the raw material can become slightly elevated. Over and above this type of radiation, the site has one controlled Sealed Radioactive Source that is installed at the Granulation plant.

Foskor Richards Bay has an NNR Certification of Registration for handling and processing radioactive materials on site. The site has supervised areas and non-supervised areas. There is a radiological monitoring strategy that is followed to ensure compliance to its code of practice and authorization conditions.

2 Proposed Solution: Reason for this RFQ

In terms of the National Nuclear Regulatory Act, No. 47 of 1999 and subsequent Certificate of Registration 27, issued to Foskor Richards Bay, it is compulsory for a company to have access to a Radiation Protection Specialist (RPS). The specialist must be appointed in terms of the act, with his/her duties set out by the National Nuclear Regulator (NNR), but not necessarily a full-time employee.

Latest revisions or amendments of the listed codes and specification apply to this contract:

Number	Title / Description	Revision
Act 47 of 1999	The National Nuclear Regulator Act	Latest
Act 46 of 1999	Nuclear Energy Act	Latest
Act 15 of 1973	Hazardous Substances Act – Group 4 Hazardous Substances	Latest
Act 85 of 1993	Occupational Health and Safety (OHS Act)	Latest
ISO 9001:2015 ISO 14001:2015 ISO 45001: 2018	Quality Management Systems Series Environmental System Management Series Occupational Health and Safety Management Systems	Latest
IAEA SF	Fundamental Safety Principles	Latest

All work listed in this scope of work shall be completed following the specifications and standards listed above. It is the responsibility of the Tenderer to be in possession of the latest standards and codes as listed above in the execution of this project.

3. Scope of Work for Decommissioning Plan according IAEA and the National Nuclear Regulator

1. Introduction

- **Objective:** Outline the purpose and scope of the decommissioning plan

3. Decommissioning Strategy

- **Approach:** Description of the chosen decommissioning strategy (immediate dismantling, deferred dismantling, or entombment).
- **Rationale:** Justification for the selected strategy based on safety, environmental, and economic considerations.

4. Project Management

- **Organizational Structure:** Outline the project management structure, including roles and responsibilities.
- **Schedule:** Detailed project timeline with key milestones and deliverables.
- **Resource Allocation:** Identification of necessary resources, including personnel, equipment, and materials.

5. Decommissioning Activities

- **Dismantling and Removal:** Procedures for the dismantling and removal of structures, systems, and components.
- **Decontamination:** Methods for decontaminating surfaces and equipment.
- **Waste Management:** Plans for the handling, transportation, and disposal of radioactive and non-radioactive waste.

6. Surveillance and Maintenance

- **Monitoring:** Procedures for ongoing monitoring of radiological conditions during decommissioning.
- **Maintenance:** Maintenance activities to ensure the safety and integrity of remaining structures and systems.

7. Waste (and Materials) Management

- **Classification:** Classification of waste types and volumes.
- **Disposal:** Plans for the safe disposal of waste, including identification of disposal sites and transportation routes.

8. Cost Estimate and Funding Mechanisms

- **Budget:** Detailed cost estimate for the entire decommissioning project.
- **Funding:** Identification of funding sources and financial assurance mechanisms.

9. Safety Assessment

- **Risk Analysis:** Comprehensive safety assessment, including identification and evaluation of potential hazards.
- **Mitigation Measures:** Measures to mitigate identified risks and ensure the safety of workers and the public.

10. Environmental Assessment

- **Impact Analysis:** Assessment of the environmental impacts of decommissioning activities.
- **Mitigation Strategies:** Strategies to minimize environmental impacts and ensure compliance with environmental regulations.

11. Health and Safety

- **Worker Protection:** Measures to protect the health and safety of workers during decommissioning.
- **Public Safety:** Measures to ensure the safety of the public and surrounding communities.

12. Quality Assurance

- **QA Program:** Description of the quality assurance program to ensure compliance with regulatory requirements and project standards.

13. Emergency Planning

- **Emergency Procedures:** Development of emergency procedures to address potential incidents during decommissioning.
- **Coordination:** Coordination with local emergency services and regulatory authorities.

14. Physical Security and Safeguards

- **Security Measures:** Measures to ensure the physical security of the facility and prevent unauthorized access.
- **Safeguards:** Compliance with national and international safeguards requirements.

15. Final Radiation Survey

- **Survey Plan:** Plan for conducting the final radiation survey to confirm that the site meets release criteria.
- **Documentation:** Documentation of survey results and final status of the site.

This scope of work ensures compliance with the IAEA SS45 and Part 6 guidelines, as well as the requirements of the National Nuclear Regulator

4. Invoicing and Payment

Payment will be made by Foskor (Pty) Ltd, after approval (with consideration for the service delivery, completion and timelines of the works) by the Foskor Project Representative or Manager (i.e., Radiation Protection Officer, Project Supervisor) of the submitted Payment Certificate to the Tenderer within **30 (thirty)** days from the date of the Tenderers approved invoice.

The invoice shall be approved per the provisions of Foskor (Pty) Ltd.'s terms and conditions.

The invoice submitted is to be in a format acceptable to the Foskor (Pty) Ltd and need to have the following minimum information:

- Company details, registration number and VAT registration number
- Purchase Order no & Date of Invoice

- Detailed description of work done to date
- Value of the current claim and work done (excl. VAT)
- VAT charged

5. Safety, Health, and Environment

- Contractor to give SHE plans with detailed Risk Assessment and Hazard Identification Programs on a Safety File prior to commencement of work to the safety department for approval, these shall be always kept at the place of work for the duration of the works.
- Contractor to abide by Foskor COP6, as attached.
- All work is to follow the Occupational Health and Safety Act (OHS ACT) and Foskor's narrative specifications (available on request).
- Attendance of all personnel intended to work on site to the compulsory Foskor induction training and specifications.
- Contractor to ensure that all personnel attend daily Safety Talks and keep records thereof.
- Valid contractor's gate passes for all personnel intended to work on site.
- The Contractor on entering site, must wear Foskor minimum required PPE at all times namely safety glasses, hard hat, (Foskor approved) acid resistant overalls, safety harnesses (on heights on temporary platform or when there is a risk of falling from height), safety boots or steel cap gumboots and respiratory bag. The contractor is responsible for ensuring that records of PPE issued to personnel are kept on the Safety File for verification purposes.
- Should a Contractor be found on site without the above-mentioned safety clothing, he will be removed from site and will be denied access.
- The Contractor shall ensure all his personnel are Safety Inducted and trained on Radiation Awareness by Foskor before they enter site and have approved medicals for Radiation Workers.
- Contractor must abide by section 37(2) of the OHS act and sign section 37(2) agreement at safety department
- No Foskor property or materials shall be removed off-site without written approval by management.

7 Technical Evaluation Criteria

	MEASUREMENT CRITERIA	% WEIGHTING	PROOF / DOCUMENTS TO BE SUBMITTED	COMMENTS / NOTES
MANDATORY / PRE-QUALIFICATION CRITERIA				
1	Radiation Professional Scientist registration (SACNASP)	Yes/No	Submit valid proof of registration as a Radiation professional Scientist	
***NB - Failure to provide the mandatory documents will lead to disqualification and your company will not be evaluated further				
2	Team Competency – Experience and Qualifications: CV & Honours Degree in Physics (relevant) or above CV with relevant experience and valid certified copies of qualifications = 30% No CV with relevant experience and valid certified copies of qualifications = 0%	30%	Submit CVs of recommended person and qualifications & professional affiliation registration (if any) for recommended person.	

3	Company experience in Radiation Protection Services SCORING: >10 years = 35% >5 - 10 years = 20% >3 - 5 years = 5% 1-3 years = 1% <1 year = 0%	35%	Provide a business profile for the company with listed services that are offered by a radiation Protection specialist and list the clients.	
4	ISO 9001 Certificate SCORING: ISO 9001 certificate as lead auditor and SAATCA registered = 35% ISO 9001 certificate = 15% No Certificate provided = 0%	35%	Provide a copy of ISO 9001 Certificate for either the company or the RPS.	
Total Technical Score		100%		

TAKE NOTE:

- 1) Any bidder/service provider that does not comply or to provide/include/supply requested information and/or copies of all requested supporting certificates and documents will result in a reduced evaluation score that could adversely affect the bidder/service providers chance of being awarded this contract/order.
- 2) Any MANDATORY REQUIREMENT not met will result in immediate rejection of bid/quotation.
- 3) Any bid/quotation with an evaluation score of less than 70% will not be considered.