



FOSKOR (PTY) LIMITED

SCOPE OF REQUIREMENTS

for

Once-off Waste Classification of all waste generated  
at Foskor Mine in Phalaborwa

DOCUMENT AND SERVICE CONTRACT APPROVAL

Compiled by: Fumani Mofokeng

Approved by: Vukile Fada

Specialist Radiation and Waste Management

Senior Manager: Environment & Quality

Foskor (Pty) Limited  
27 Selati Road / P.O Box 1  
Phalaborwa  
1390

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## **1. INTRODUCTION**

Foskor (Pty) Ltd is an Open Cast Mine that produces phosphate rock for export or domestic beneficiation. It is one of the world's few vertically integrated producers of phosphoric acid and is the second largest supplier to India, the world's largest consumer of phosphoric acid.

Approximately 2.2 million tons of phosphate rocks are produced annually. The product is finely ground apatite mineral from coarsely crystalline calcium-fluoride-phosphate compound of igneous origin. The intermediate and final products are for the domestic and international markets and provide the following advantages:

- Make South Africa self-sufficient from phosphate imports.
- Earn foreign currency from the export of the products.
- Create approximately 2000 direct job opportunities, with associated indirect job opportunities in the Greater Phalaborwa region.

The dominating rock type in the Phalaborwa area, older than 3000 million years, is granite-gneiss of the Archaic Complex. Intrusive in this are younger rock types of the Phalaborwa Igneous Complex. Inclusions of serpentine, talc and amphibole schist are found in the granite-gneiss and igneous rock.

## **2. BACKGROUND**

The management of waste in South Africa is governed by the National Environmental Management: Waste Act, 2008(Act 59 of 2008), which states that all waste generators must ensure that the waste they generate is classified in accordance with the South African National Standard 10234 within one hundred and eighty (180) days of generation.

The management and disposal of waste, in particular hazardous waste is a critical element in protecting South Africa's environment. Inappropriate handling and disposal of hazardous waste leads to the pollution of groundwater and other watercourses. The National Environmental Management: Waste Act, 2008 (Act 59 of 2008) aims to regulate the classification and management of waste in a manner which supports and implements the provisions of the Act. To ensure that waste is handled and disposed of in a responsible and legally compliant manner, waste generated at Foskor must be classified to establish the nature and hazard thereof. Waste classification, as defined by the legislation, is the systematic process of categorizing waste based on its characteristics and potential hazards, which separates it into hazardous and non-hazardous categories.

Waste classification is not only a regulatory obligation under NEMWA and SANS 10234 but also an essential tool for achieving responsible environmental stewardship. The classification process facilitates the diversion

of suitable waste streams away from landfill through reuse, recovery, or recycling and supports the principles of the waste management hierarchy. Foskor focuses on the establishment of waste properties and potential hazards for every waste generated, to determine the degree of the hazard posed by the generated waste, based on its chemical and biological properties.

Foskor generates the following waste types:

- General waste (wood, concrete, cardboards etc)
- Hazardous waste (used oil, soil contaminated with hydrocarbons, contaminated water, fluorescent light tubes, contaminated oil rags & filters, chemical containers, paint, contaminated personal protective equipment (PPE), used oil & grease)
- Waste tyres.
- Low level radioactive waste
- Old conveyors
- Scrap metals
- Sludge
- Electronic waste
- Recyclables (paper, metal, glass and plastics)
- Organic waste (food waste and garden waste)
- Electrical cables

Waste streams specified in item 2 of Annexure 1 of NEMWA, 2008 (Act no 59 of 2008) do not require classification in terms of Regulation 4(1), nor assessment in terms of Regulation 8(1)(a). This includes domestic waste, uncontaminated building and demolition waste, garden waste, waste tyres, waste packaging, asbestos waste and health care risk waste.

### **3. PURPOSE OF THE SCOPE**

The purpose of the scope analysis is to comprehensively evaluate, distinguish and designate waste material as hazardous or non-hazardous. Foskor intends to assess, characterise, and categorise waste streams to determine appropriate treatment technologies, containment measures, and disposal routes.

### **4. METHODOLOGY**

The service provider must use the recognized methodology for waste analysis, and the methodology must be explained and should also comply with the laws, regulations and SANS codes. The source-term determination should include, but not limited to:

- Characterize the waste's physical, chemical and biological properties, assessing its suitability for the classification of waste in accordance with GN R.634 - Classification and Management Regulations.
- Analysis and hazard rate the waste or its residue, to determine the hazard rating and the minimum requirements for disposal. (Analysis must be undertaken by a SANAS accredited laboratory).
- Develop a waste classification system whereby waste can be classified in accordance with the risk it poses.
- SDS as per SANS 10234, the latest edition of the South African National Standards Globally Harmonized System of Classification and Labelling of Chemical.

#### **4.1 PROJECT DELIVERABLES**

The deliverables for each waste must include: -

- Waste Assessment Annexure 1
- Waste Assessment Report
- Waste Classification Report
- Waste SDS as per SANS 10234 for each waste

#### **5. REPORTING**

The successful service provider will report to the Specialist Radiation and Waste Management at Foskor Environmental and Quality Department on various milestones achieved such as the study programme, plan, data, and sample collection dates, etc. until submission of the final report to Foskor.

#### **6. BASIC SPECIFICATION, REQUIREMENTS AND RESPONSIBILITIES**

The successful bidder is responsible to:

- a) Comply with all the specifications and requirements of this document.
- b) Comply to all the requirements of Foskor COP 25, Service Provider Control (Available upon request).
- c) Supply and transport to site all labour, skill, expertise, and supervision.
- d) Supply required PPE and safety equipment to safely conduct the required service.

#### **7. LEGISLATIVE AND REGULATORY REQUIREMENTS**

7.1 The successful or appointed service provider shall comply with:

- a) The Mines Health and Safety Act with Regulations (Latest revision)
- b) National Environmental Management Waste Act, no. 07 of 1998 as per GN R.634 (Waste Classification and Management)
- c) All applicable national and international legislative requirements and regulations.

- 7.2 The successful or appointed service provider shall comply with the latest revisions of all Foskor COP's and SOP's and any other Foskor safety, health, quality and environmental policies and procedures deemed applicable by a Foskor representative.
- 7.3 The successful or appointed service provider shall comply with all Foskor's Environmental Specifications, Policies and Procedure and the national, provincial and local environmental legislation such as
- a) National Environmental Management Act 107 of 1998 (NEMA)
  - b) National Environmental Management Waste Act 59 of 2008 (NEMWA) as amended.
  - c) The successful service provider shall include in his/her SAFETY FILE, and comply with, the following documents:
    - Environmental Aspect and Impact Register (Applicable to this contract).
    - Environmental Objectives and Targets (Applicable to this contract).
    - Waste Management Plan (Applicable to this contract).
    - FOSKOR Waste Management Licence (Copy available on request)
    - FOSKOR Water Use Licence (Copy available on request)
- 7.4 The successful or appointed service provider shall ensure that all his/her on-site employees have been authorised by a Foskor regulation 2.13.1 appointee to:
- a) Perform job specific *hazard identification and risk assessments* (Foskor Annexure 1.3)
  - b) Operate trackless mobile machinery service provider employees (Foskor Annexure 59.7B)
  - c) Any other Foskor activity requiring authorisation as deemed applicable by a Foskor representative.
- 7.5 Before entering and operating a service vehicle (own vehicle) on the Foskor site, the appointed service provider shall: (a) Ensure that:
- To access in restricted areas, his vehicle has been fitted with an "internal safety cell" that has been designed, fabricated, tested and certified to comply with the requirements of ISO 3471:2008
  - His driver/s are in possession of a valid national driver's licence for the specific class of vehicle, has been tested by the Foskor mobile equipment training centre and authorised by a Foskor MHSA (Mines Health and Safety Act) regulation 2.13.1 appointee for the class of vehicle to be used on site.

- His driver/s has been tested by the Foskor mobile equipment training centre and authorised by a Foskor MHSA (Mines Health and Safety Act) regulation 2.13.1 appointee to operate a vehicle in the mine open pits (Restricted or Red-flag areas).

*(Contact the Foskor mobile equipment training centre on 015 789 2840 to make an appointment for competence testing and authorisations).*

- a) The appointed service provider shall, before entering and operating a vehicle on the Foskor premises:
  - i. Obtain permission from the Foskor Safety & Security manager to operate his nominated service vehicle/s on the Foskor site.
  - ii. Obtain a certificate of fitness from the Foskor Light Vehicle maintenance workshop supervisor or appointed Foskor inspector for his nominated service vehicle/s. Inspections conducted daily between 08:00 and 08:30 and between 13:30 and 14:00 (Excluding Fridays) at the Light Vehicle Maintenance workshop.
  - iii. Submit the above permission and COF in at the main security office for issue of a vehicle access disk.
- b) Ensure that his service vehicles have been inspected (Daily) in accordance with the Foskor standard (COP 59) to ensure that they are safe and fit for use. (Forms will be provided)
- c) See Foskor COP 59, Trackless Mobile Machinery for details.

7.6 Before entering and operating/working on the Foskor site the appointed service provider shall ensure that his driver/workmen are:

- a) Briefed on the required task and have been informed of any abnormal conditions/situations.
- b) Physically, emotionally, and mentally fit to perform their duty.
- c) Issued with the necessary PPE (Personal Protective Equipment) to safely perform the required services on mine and enroute to the waste disposal sites.
- d) Before commencement of work:
  - All tools and equipment shall have been inspected and tested to be in a good and safe working order.
  - All appointed personnel have participated in the completion of a standard Foskor site risk assessment (Commonly known as a HIRA and taken appropriate actions to mitigate any identified hazards).

7.7 Although every effort has been made to ensure that the information contained within this document is correct, it remains the responsibility of the bidder to verify actual status and site conditions. (A site visit can be arranged).

**8. PERMIT TO WORK**

Before any on-site work under this contract may commence, the appointed or successful service provider shall obtain from Foskor a PERMIT TO WORK. The following guidelines are provided to assist the appointed service provider in obtaining a PERMIT TO WORK. (See Foskor COP 28, Permit to work and COP 25, Service provider control for details):

- 9.1. The permit to work can be obtained from and on completion returned to the Legal administrator at Foskor Safety department.
- 9.2. Obtain a contract or order number from the Foskor Procurement Department.
- 9.3. Provide a name list, including ID numbers, residential and postal addresses, and telephone numbers of all the appointed service providers' on-site employees.
- 9.4. All the appointed service providers onsite employees shall undergo a full medical examination at the Foskor on - site Clinix Clinic. The clinic can be contacted at 015 789 2427 for an appointment.
- 9.5. NOTE: All NEW and Employees LEAVING the service of the appointed service provider must undergo an entry or exit medical examination.
- 9.6. The appointed service providers designated onsite drivers shall receive competence testing and authorisation to operate vehicles on the Foskor site.
- 9.7. All the appointed service providers' employees shall receive/have received training in:
  - First aid level 1 (Provide own training)
  - Basic Health & Safety Principles (Provide own training)
  - HIRA (Provide own training)
  - Basic firefighting (Provide own-or receive Foskor training, contact 015 789 2531 to book)

All training not provided by Foskor must be verified by the Foskor training superintendent Mr. Johan Fouche. Please contact him on 015 7789 2525 to make an appointment or alternatively email proof of training and certificates to [johanfo@foskor.co.za](mailto:johanfo@foskor.co.za) to confirm compliance before requesting his approval on the PERMIT TO WORK.

- 9.8. All the appointed service providers' on-site employees shall receive the basic Foskor site induction training at the Foskor Security office.
- 9.9. All the appointed service providers' on-site employees shall receive site specific induction training provided by the Foskor area Regulation 2.6.1 appointee/s.
- 9.10. A HIRA (Hazard Identification and Risk Assessment) shall be completed for ALL "typical" tasks that will be completed under this contract. HIRA's to be signed by all service provider employees. Make use of Foskor's own HIRA document, Annexure 1.2, contained in of COP 1, Foskor risk management (Available on request).

- 9.11. Attach a detailed SCOPE OF WORK describing the required task and outcome of this contract.
- 9.12. All Foskor's appointed MHSA Regulation 2.9.2, 2.6.1, 2.13.1 and 3.1.a managers must undersign/approve the PERMIT TO WORK.
- 9.13. Registration and proof of payment under the Compensation for Occupational Injuries and Diseases Act, no. 130 of 1993. Registration number must be provided.
- 9.14. All relevant documentation and/or evidence of compliance must be attached to the PERMIT TO WORK.
- 9.15. Upon successful completion and approval of the PERMIT TO WORK the security department will issue the appointed service providers' employees with access ID cards valid for 12 months.
- 9.16. Any other documents, certificates or records as requested by a Foskor official deemed necessary to ensure that all safety, legislative and administrative requirements have been met must be attached to the PERMIT TO WORK.
- 9.17. The appointed service provider must allow at least three to ten working days to complete all the PERMIT TO WORK requirement.

## **9. SAFETY FILE**

Before any work may commence, the appointed service provider must, in conjunction with the Foskor safety department, compile a safety file specifically for this contract. Contact the area responsible safety representative or attend the monthly service providers meeting every 2nd Monday of the month (3rd Monday if 1st or 2nd Monday a public holiday) at 13:30 in the Foskor Plant Training Hall). The safety file must always be available for inspection by a Foskor Official.



**Scope of Work – Once-off Waste Classification of all waste generated at Foskor Mine in Phalaborwa**

**10. PRICING SCHEDULE**

Description	Units	Qty	Rate	Total
Travel and Accommodation	Sum	1	R	
Medical Surveillance	Sum	1	R	
Induction and Mandatory Training	Sum	1	R	
Personnel Protection Equipment (Clothing)	Sum	1	R	
<b>Description</b>				
	Once off Waste Classification of all waste generated at Foskor Mine in Phalaborwa			
Waste Assessment Annexure 1 (All waste)	Sum	1	R	
Waste Assessment Report (All waste)	Sum	1	R	
Waste Classification Report (All waste)	Sum	1	R	
Waste SDS as per SANS 10234 for each waste (All waste)	Sum	1	R	
	<b>Rate per hour</b>			
Technical engagement with Foskor meetings max 5 (offset, sampling, feedback, etc)	No.	5	R	
	<b>Other issues/ aspects</b>			
a)			R	
b)			R	
c)			R	
d)			R	
e)			R	

**11. MANDATORY REQUIREMENTS/ PRE-QUALIFICATION CRITERIA**

**Bid submission not meeting the mandatory requirement will result in the bid being disqualified.**

No	Mandatory Requirement	Comments
1	SANAS Accreditation for the laboratory that will be conducting the analysis and, a written Work Agreement or SLA.	Submit the SANAS Accreditation Certificate/ SLA or Confirmation Letter from the Laboratory

## Scope of Work – Once-off Waste Classification of all waste generated at Foskor Mine in Phalaborwa

### 12. TECHNICAL EVALUATION CRITERIA AND BID ASSESSMENT

As part of the process to assist with the evaluation of the bidder's proposal/quotation and to make an informed decision in the awarding of this contract, the following above information is required.

	MEASUREMENT CRITERIA	Criteria scoring (%)	Score (%)	Type of proof to be submitted.
1	<b>Team Leader/ project specialist Qualifications and Experience:</b> BSC Environmental Science/ Management Project management Qualification Team Leader/ project specialist individual experience in waste classification projects, including sampling methodologies, application of SANAS standards, interpretation of analytical results, and report compilation.	<1year = 0% 1-2 years = 5% 3- 4 years = 15% >5 years = 30%	30%	CV indicating number of years the individual was involved in similar classification projects. Submit CVs of recommended person and qualifications & professional affiliation registration (if any) for recommended Team Leader or Manager. Proof of qualifications.
2	<b>Company Experience</b> Years of experience in waste classification, sampling, and analysis in line with the National Environmental Management: Waste Act and applicable regulations	No experience = 0% 3 years' experience = 10% >4 years' experience = 20%	20%	Confirmation letter from the companies indicating the type of classification work performed and the duration of the contract. Reference letters.
3	<b>List of waste classification or similar environmental contracts undertaken in the past 5–10 years</b> Provide the following information/details: a) Brief description of contract type (e.g. sampling, analysis) b) Location/site of the project. c) Name and contact details of client representative.	No previous projects = 0% 3- 4 Projects = 20% >4 projects = 30%	30%	Confirmation letter from the companies indicating the type of work done and the dates or duration of the contract.
4	<b>Project Philosophy:</b> Demonstrated understanding of the waste classification process, including: - Sampling plan in accordance with regulations. - Application of norms & standards for landfill disposal.	Proposal not submitted= 0% Philosophy not relevant to project = 0% Proposal submitted = 20%	20%	Provide detailed proposal outlining methodology for waste classification, including sampling approach, testing standards, and reporting framework.
<b>For the bid to be considered for shortlisting, the bidder needs to score 70% and above and comply to all mandatory requirements</b>				

**TAKE NOTE:**

- 1) Any bidder/service provider that fails to comply or to provide/include/supply the 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.

**TECHNICAL:**

Fumani Mofokeng  
Tel: (015) 789 2433  
Cell: 073 505 0320  
Email: [fumanim@foskor.co.za](mailto:fumanim@foskor.co.za)

**COMMERCIAL:**

Daleen Kruger  
Tel: (011) 347 0660  
Cell: 0744552238  
Email: [daleenk@foskor.co.za](mailto:daleenk@foskor.co.za)

BIDDER: \_\_\_\_\_

**SIGNATURE**  
**DATE**

\_\_\_\_\_  
**DESIGNATION**

COMPANY STAMP