



FOSKOR (PTY) LIMITED SCOPE OF REQUIREMENTS

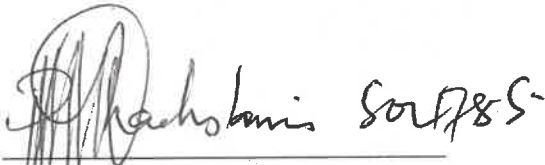
for

Environmental Noise Survey at Foskor Mine.

DOCUMENT AND SERVICE CONTRACT APPROVAL

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FOSKOR (PTY) LIMITED

SCOPE OF REQUIREMENTS

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1. INTRODUCTION

Foskor (Pty) Ltd. is an opencast mining and beneficiation operation situated in Phalaborwa. The core business of the Phalaborwa operation is the mining and beneficiation of phosphate rock. (The Foskor operation situated in Richards Bay is primarily a producer of phosphoric acid, phosphate-based fertilizers, and lower volumes of sulphonic acid).

Foskor (Pty) Ltd (Mining Division) is an Open Cast Mine that produces phosphate rock for export or domestic beneficiation. Approximately 2.2 million tons of phosphate rock is 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

Noise can be defined as a sound that is loud or unpleasant or causes disturbance. The issue of environmental noise is a growing concern with impacts ranging from annoyance to hypertension to hearing loss. Thus high noise levels are accompanied by an increasing number of complaints from affected individuals. Apart from the obvious physiological health effects caused by excessive exposure to noise, such as noise-induced hearing impairment, noise pollution presents several other potential negative impacts to the community. These aspects are briefly classified as follows: - Effects on residential behavior and annoyance - Interference with communication - Sleep disturbance - Psycho-physiological effects (e.g. stress response, cardiovascular, fatigue, etc.) - Mental health effects - Effects on performance Main sources of environmental noise include road and air traffic, industries, construction activities and public works, as well as neighbourhood noise, e.g. sporting events, and barking dogs.

Environmental noise can therefore be considered as a form of pollution. By definition, pollution is something that is to be avoided, controlled, regulated, or eliminated due to its negative impact on humans and human-environment relationships, therefore, it is important to determine the impact on the environment.

Noise survey can be conducted to determine the current conditions or character of noise in a specific area to identify possible impacts and to provide mitigation measures should it be found that an impact does occur. It is crucial to understand the current noise environment of an area to be able to define the impact of the activity on both sounds generated during the day and the night. Environmental noise surveys play a crucial role in assessing and mitigating the impact of the noise on our surroundings. By definition, an environmental noise survey is the measurement and monitoring of levels of sound in an area. This survey is conducted to identify areas and environments where noise levels may be of concern or issue and to identify the prevailing noise climate in a given receptor.

Noise monitoring is considered to be a measure to exercise duty of care (Section 28(1) of the National Environmental Management Act 107 of 1998 (NEMA)), as the study undertaken will provide the current conditions of noise at the mine, which can then be used to determine the possible impact of the activity and thereby provide possible mitigation measures to prevent noise pollution.

3. SCOPE

The once off undertaking of the environmental noise survey to determine the current conditions or character of noise at the Foskor mine, to identify possible impacts of the mine activities and thereby providing possible mitigation measures to prevent noise pollution should it be found that an impact does occur. It will be crucial to understand the current noise environment of the mine to be able to define the impact of the activities on both sound generated during the day and the night.

4. METHODOLOGY

A study/ survey must be conducted in terms of the provisions of SANS 10103 of 2008, during day monitoring between 06:00 and 22:00, and night-time monitoring between 22:00 and 06: 00. A certified and calibrated sound level meter must be used to provide accurate and reliable ambient sound level measurements at various points along the perimeter of the mine property and in the surrounding community.

The noise survey must be compiled by studying and analysing the activities and by determining the possible noise impacts these activities will have on the surrounding land users.

Various data source inputs required includes, but is not limited to the following:

- The site layout and geographical location;
- Sensitive receptors in the area;
- Noise generating activities in the area; and
- Actual measured noise data from the mine.

From the abovementioned data, the areas, or activities most prone to noise generation must be determined and actual noise measurements obtained. A report must be compiled with all available information and recommendations with mitigation measures provided to prevent noise from becoming a nuisance.

5. DELIVERABLES

- A final Environmental Noise Survey report with all available information and recommendations with mitigation measures provided to prevent noise from becoming a nuisance.

Note: A non-compulsory site visit can be arranged prior to submission of the quotations

6. REPORTING

- The successful contractor must report to the Environmental Specialist at Foskor Environmental 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.

7. BASIC SPECIFICATIONS, 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 on request).
- c) Supply and transport to site all labour, skill, expertise, and supervision.
- d) Supply required PPE (Personal Protection Equipment) and safety equipment to safely conduct the required service.

8. LEGISLATIVE- AND REGULATORY REQUIREMENTS

8.1 The successful or appointed service provider shall comply with:

- a) The Mines Health and Safety Act with Regulations (Latest revision)
- b) The National Road Traffic Act with Regulations (Latest revision)
- c) All applicable national and international legislative requirements and regulations.

8.2 The successful or appointed service provider shall comply with the latest revisions of all Foskor COP's and SOP's (Compendium of Procedures, Standard Operating Procedures) (COP's, policies and procedures are available on request) and

- a) Any other Foskor safety, health, quality and environmental policies and procedures deemed applicable by a Foskor representative.
- b) All other Foskor procedures and policies applicable to the successful application of this contract.

8.3 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:
 - i. Environmental Aspect and Impact Register (Applicable to this contract).
 - ii. Environmental Objectives and Targets (Applicable to this contract).
 - iii. Waste Management Plan (Applicable to this contract).
 - iv. FOSKOR Atmospheric Emissions License (Copy available on request)

- v. FOSKOR Waste Management Licence (Copy available on request)
- vi. FOSKOR Water Use Licence (Copy available on request)

8.4 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) Work at height (Foskor Annexure 96.1)
- d) Any other Foskor activity requiring authorisation as deemed applicable by a Foskor representative.

8.5 Before entering and operating a service vehicle (Own vehicle) on the Foskor site, the appointed service provider shall:

- a) Ensure that:
 - i. In order to access in restricted areas, his vehicle has been fitted with an “internal safety cell” (ROPS – Roll Over Protection Structure) that has been designed, fabricated, tested and certified to comply with the requirements of ISO 3471:2008 - EARTH-MOVING MACHINERY – ROLL-OVERPROTECTIVE STRUCTURES or similar specification.
ROPS COMPLIANCE CERTIFICATES (Fabrication and Installation) TO PRESENTED DURING VEHICLE INSPECTION (See item 5.b.ii)
 - ii. 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.
 - iii. 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)
- b) 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. (Forms will be provided)
 - 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.
- c) 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)
- d) See Foskor COP 59, Trackless Mobile Machinery for details.

- 8.6 Before entering and operating/working on the Foskop 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 operate his service vehicles and perform the required services on mine and enroute to the waste disposal sites.
 - d) Before commencement of work:
 - i. All tools and equipment shall have been inspected and tested to be in a good and safe working order.
 - ii. All workmen have participated in the completion of a standard Foskop site risk assessment (Commonly known as a HIRA or Hazard Identification and Risk Assessment) and taken appropriate actions to mitigate any identified hazards.
- 8.7 Before entering and operating/working on the Foskop site the appointed service provider shall ensure that his portable electrical equipment has been tested and declared safe to use by the Foskop electrical services workshop.
- 8.8 Before accessing overhead cranes and/or vehicle post lifts whereupon work is to be conducted, the equipment shall be locked out at the power source. The lock shall be marked and tagged. The tag shall contain the service providers business name, employee name responsible for lock and contact numbers. See Foskop COP 53, Lock-out system, and usage for details.
- 8.9 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)

9. PERMIT TO WORK

Before any on-site work under this contract may commence, the appointed or successful service provider shall obtain from Foskop a PERMIT TO WORK. The following guidelines are provided in order to assist the appointed service provider in obtaining a PERMIT TO WORK. (See Foskop 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, Foskop Safety department.
- 9.2. Obtain a contract or order number from the Foskop 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' on-site employees shall undergo a full medical examination at the Foskop 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 on-site drivers shall receive competence testing and authorisation to operate vehicles on the Foskop site (See item 5 under the heading LEGISLATIVE REQUIREMENTS).
- 9.7. All the appointed service providers' employees shall receive/have received training in:
- a) - First aid level 1 (Provide own training)

- Working at heights (Provide own training)
 - Basic Health & Safety Principles (Provide own training)
 - HIRA (Provide own training)
 - Basic firefighting. (Provide own- or receive Foskop training, contact 015 789 2531 to book)
 - Lock out. (Provide own- or receive Foskop training, contact 015 789 2531 to book)
- b) All training not provided by Foskop must be verified by the Foskop 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 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 Foskop site induction training at the Foskop Security office.
- 9.9. All the appointed service providers' on-site employees shall receive site specific induction training provided by the Foskop 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 Foskop's own HIRA document, Annexure 1.2, contained in of COP 1, Foskop 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 Foskop'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 Foskop 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 requirements.

10. 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 Foskop Plant Training Hall).

The SAFETY FILE must always be available for inspection by a Foskop official.

PRICING SCHEDULE

Item Nos	Description	Rate per hour	Number of hours	Total
1	Initial site visit and inspection of the mine activities with mine representatives			
	Acquisition and review of existing and available information			
3	Design of the environmental noise survey program			
4	Conducting the study/ survey (including collection of data and analysis, field, and desktop studies)			
5	Drafting and submission of the comprehensive environmental noise survey report			
6	Other (specify)			
	a)			
	b)			
	c)			
	d)			
	e)			
	Total Cost			

11. 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 information is required:

Technical Evaluation

	MEASUREMENT CRITERIA	Criteria scoring (%)	Score (%)	Type of proof to be submitted.
1	Company- Years in business in conducting of environmental noise surveys	- No experience = 0% 1-3 years combined experience = 10% >4 years combined experience = 20%	20%	Award Letters / Confirmation letter from the companies indicating the type of work done and the dates or duration of the contract
2	List of similar/same contracts awarded in past five years. Provide the following information/details: a) Brief description of the contract type b) Address/ site of the contract c) Name and telephone/ cell number of clear contact person	- No previous projects = 0% 1-4 Projects = 10% >4 projects = 20%	20%	Award Letters / Confirmation letter from the companies indicating the type of work done and the dates or duration of the contract
3	Team Leader/ project specialist tertiary qualification in Natural Science, Environmental or Occupational Hygiene and relevant working experience	Degree/ Diploma in Natural Sciences, Environmental Science or Occupational Hygiene	20%	CV indicating number of years the individual was involved with similar type of projects and Copies of Certificate
Mandatory requirement below				
***NB - Failure to provide the mandatory documents will lead to disqualification and your company will not be evaluated further				
4	SACNASP/ EAPASA/ SAIOH registered professional Scientist / Environmental practitioner or Occupational Hygienist	- No certificate provided = 0% - Certificate provided+= 20%	20%	Copies of Applicable Certificate
5.	Understanding of the project- The brief methodology or proposal for conducting environmental noise surveys	- Methodology not submitted = 0% - Methodology submitted = 20%	20%	Provide brief methodology or proposal
For the bid to be considered for shortlisting, the bidder needs to score 70% and above and comply to all mandatory requirements				

TAKE NOTE:

- 1) Any bidder/service provider that fails to 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.

TECHNICAL:

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BIDDER: _____

SIGNATURE

DESIGNATION

DATE

COMPANY STAMP