



FOSKOR (PTY) LIMITED SCOPE OF REQUIREMENTS

for

Supply, Installation, calibration and commissioning of the Ambient Air Quality Monitoring Station at Foskor Mine.

DOCUMENT AND SERVICE CONTRACT APPROVAL

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FOSKOR (PTY) LIMITED

SCOPE OF REQUIREMENTS

For

Supply, installation, calibration and installation of Ambient Air Quality (PM Monitor) Monitoring Station at Foskor Mine.

1. INTRODUCTION

Foskor (Pty) Ltd. is an open-cast 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 sulphuric 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

The nature of mining and mineral processing activities involves the generation of airborne particulates, including fugitive dust and fine particulate matter (PM₁₀ and PM_{2.5}). These emissions arise from multiple sources, such as, blasting operations, drilling, excavation and hauling, material handling and crushing and tailings storage facilities and stockpiles. Foskor mining is classified as a Listed Activity under the National Environmental Management Air Quality Act (Act 39 of 2004) and holds Atmospheric Emission License with license number 13/2/AEL-02/A2.

As part of adherence to environmental compliance and licensing conditions, the mine should implement effective air quality monitoring systems to measure and manage emissions of regulated pollutants, including particulate matter.

Particulate Matter (PM₁₀ & PM_{2.5}) is one of the key pollutants associated with mining and material handling activities. To support air quality management program and reporting obligations, Foskor intends to install a real time particulate matter monitoring station at its mine. This monitoring station will collect continuous ambient air data, which will be used for atmospheric emission license and environmental compliance reporting to Mopani District Municipality and real time management and response to dust events.

3. SCOPE

3.1 The successful service provider will be responsible for the following:

Supply, installation, calibration and commissioning of the ambient air quality (PM) monitoring station with remote monitoring capabilities which could be integrated with smart work devices and mobile apps for tracking ambient monitoring data from the smartphone. The monitoring station must be robust and capable of withstanding harsh weather conditions such as heavy rain, storm, snow, or extreme temperatures (cold and heat). The installation of the PM monitor must be in accordance with national and international meteorological standards and regulations.

The PM monitor should contain the following specifications and be able to measure the ambient air quality parameters

- It must provide reliable ambient air monitoring data and must be suitable for mining and industrial environments
- It must be electrically powered with option of solar power system and rechargeable battery as a standby power supply
- The ambient air monitoring station must contain sensors that are able to monitor at minimum and provide real time data transmission and access
 - PM 10 and PM2.5
 - Temperature
 - Relative humidity
 - Wind speed and wind direction
- The ambient air monitoring station data must be provided in a software or web-based platform for data viewing, analysis and export. The monitoring station must provide
 - Real time data display
 - Historical data access
 - Graphical and Tabular data presentation
- Ensure data is downloadable in common formats (e.g. excel)
- Include alerts functionality and or notifications in case of system malfunction or abnormal readings
- Mounting, calibration and commissioning of all sensors and equipment (including solar power and rechargeable battery)
- Ensure secure and weather resistant installation, considering safety and accessibility for maintenance

3.2 Maintenance, Calibration and Support

- The service provider will be responsible for maintenance, calibration and support for the installed unit for at least first 3 years to ensure that the ambient air monitoring station remains functional and accurate. The service provider must provide training to the relevant mine personnel in the daily operation of the fully functional ambient station and must provide Foskor with warranty period and after sale support conditions.

4. DELIVERABLES

- Fully installed and operational ambient air monitoring station
- Real time data access system operational on computers/ web portal/ smart phones
- Maintenance, calibration and support requirements for the first 3 years after installation

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

5. REPORTING

- The appointed service provider will report to the Environmental Management Specialist until fully installed and operational of the monitoring station and for maintenance and calibration purposes.

6. 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.

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) The National Road Traffic Act with Regulations (Latest revision)
 - 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 the following Foskor COP's (Compendium of Procedures) (COP's, policies and procedures are available on request):
 - a) FSK-MD- PRO 033 Mobile, Technical and Process Training
 - b) COP 25 for Service provider Control
 - c) COP 56 for Lifting Machinery and Lifting Tackle
 - d) FSK-MD- PRO 14 for Trackless Mobile Machinery
 - e) COP 96 Working at Heights
 - f) Any other Foskor safety, health, quality and environmental policies and procedures deemed applicable by a Foskor representative.

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- g) All other Foskor procedures and policies applicable to the successful application of this contract.
- 7.3 The successful or appointed service provider shall comply with the following Environmental Specifications, Policies and Procedures:
- a) COP 41 Housekeeping and workplace organisation
 - b) FSK-MD- PRO 09 Waste Management
 - c) COP 51 Resource conservation, energy, and materials
 - d) COP 70 Storage of petroleum products and other hazardous material
 - e) National Environmental Management Act 107 of 1998 (NEMA)
 - f) National Environmental Management Waste Act 59 of 2008 (NEMWA) as amended.
 - g) 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 (To be availed)
 - vi. FOSKOR Water Use Licence (To be availed)
- 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) Work at height (Foskor Annexure 96.1)
 - d) 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:
 - 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.

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- 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.
- 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 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 Foskor site risk assessment (Commonly known as a HIRA or Hazard Identification and Risk Assessment) and taken appropriate actions to mitigate any identified hazards.
- 7.7 Before entering and operating/working on the Foskor site the appointed service provider shall ensure that his portable electrical equipment has been tested and declared safe to use by the Foskor electrical services workshop.
- 7.8 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 Foskor COP 53, Lock-out system, and usage for details.
- 7.9 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)

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 in order 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):

- 8.1 The PERMIT TO WORK can be obtained from- and on completion returned to the Legal Administrator, Foskor Safety department.
- 8.2 Obtain a contract or order number from the Foskor procurement department.
- 8.3 Provide a name list, including ID numbers, residential and postal addresses, and telephone numbers of all the appointed service providers' on-site employees.
- 8.4 All the appointed service providers' on-site 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.
- 8.5 (NOTE: All NEW- and Employees LEAVING the service of the appointed service provider must undergo an entry or exit medical examination)
- 8.6 The appointed service providers designated on-site drivers shall receive competence testing and authorisation to operate vehicles on the Foskor site (See item 5 under the heading LEGISLATIVE REQUIREMENTS).
- 8.7 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 Foskor training, contact 015 789 2531 to book)
 - Lock out. (Provide own- or receive Foskor training, contact 015 789 2531 to book)
 - b) 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 to confirm compliance before requesting his approval on the PERMIT TO WORK.
- 8.8 All the appointed service providers' on-site employees shall receive the basic Foskor site induction training at the Foskor Security office.
- 8.9 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.

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- 8.10 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)
- 8.11 Attach a detailed SCOPE OF WORK describing the required task and -outcome of this contract.
- 8.12 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.
- 8.13 Registration and proof of payment under the Compensation for Occupational Injuries and Diseases Act, no. 130 of 1993. Registration number must be provided.
- 8.14 All relevant documentation and/or evidence of compliance must be attached to the PERMIT TO WORK.
- 8.15 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.
- 8.16 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.
- 8.17 The appointed service provider must allow at least three to ten working days to complete all the PERMIT TO WORK requirements.

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.

10. PRICING SCHEDULE

Description	Once off
Travel and Accommodation	R
Medical Surveillance	R
Induction	R
Mandatory Training (HIRA, Basic Safety and First Aid)	R
Personnel Protection Equipment (Clothing)	R
Description	Total
Supply and installation of the ambient air monitoring station at Foskor Mine in Phalaborwa	
Supply, installation and calibration of real-time ambient air data and monitoring station with remote monitoring capabilities which could be integrated with smart work - electrically powered supply with solar and battery capabilities for standby purpose	R
Commissioning of the ambient air monitoring station	R
Training for relevant mine personnel in the daily operation of the ambient air monitoring station	R
Maintenance, Calibration and Support Services for the ambient monitoring station for the first 3 years after installation	R
Technical engagement (Meeting.) with Foskor- estimated 3 meetings (2 visual meeting and 1 in person meeting)	R
Other, specify	
a)	
b)	
c)	
d)	
e)	

11. MANDATORY REQUIREMENTS/ PRE-QUALIFICATION CRITERIA

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

No	Mandatory Requirement	Comments
1	Competency for the supply, instantiation, calibration and assembly training of the ambient air monitoring (PM Monitor) station in South Africa	Submit certification or any evidence issued by the relevant body
2	Registration and proof of payment under the Compensation for Occupational Injuries and Diseases Act, no. 130 of 1993. Registration number must be provided (Valid Letter of good standing)	Submit Valid letter of good standing (COIDA)

12. 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 Experience: Years in business of the supply, installation, calibration and commissioning of ambient air monitoring stations	No experience = 0% 3 years combined experience = 10% >4 years combined experience = 20%	20%	Confirmation letter from the companies indicating the type of work done and the dates or duration of the contract
2	List similar/same contracts awarded in past 5 – 10 years Provide the following information/details: a) Brief description of the contract type (similar work conducted in the mining or industrial sectors, PM monitoring or ambient air quality stations) b) Address/ site of the contract c) Name and telephone/ cell number of clear contact person	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
3	Team Leader/ project technician/ engineer Experience: Team Leader/ project technician/ engineer individual experience as installation technician of monitoring station equipment	<1year = 0% 1-2 years = 5% 3- 4 years = 10% >5 years = 20%	20%	CV indicating number of years the individual was involved with similar type of projects
4.	Project Methodology/ proposal: Detailed methodology on how the service provider plans to execute the project, including: a) Gantt chart or programme for the project which includes project schedule, displaying tasks, their durations b) Equipment delivery c) Installation procedure d) System calibration and commissioning e) Quality assurance and risk mitigation	Proposal not submitted = 0% Proposal submitted = 30%	30%	Provide detailed 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