

SCOPE OF WORK

Description: Line boring and Insert bullets Supply

SCOPE OF WORK

COMPANY BACKGROUND and OBJECTIVE(S)

Foskor is one of the world's largest producers of phosphate rock (concentrate) and phosphoric acid. 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.

The Company owns and mines phosphate resources and beneficiates the mined material to produce a phosphate concentrate at Phalaborwa, in the Limpopo Province of South Africa. The phosphate concentrate is sold locally and transported to the Richards Bay plant on the coast of Kwa-Zulu Natal to produce phosphoric acid, sulphuric acid and granular fertilisers MAP and DAP from phosphoric acid and is the leading supplier of fertilisers to South Africa. In all about 95% of the phosphoric acid is exported and the granular sales are divided between exports and local markets. Since 1951 Foskor has supplied more than 95% of South Africa's fertiliser requirements.

The first objective for the contractor is to submit the required tender documentation listed in section seven (7) of this document. After obtaining the order the successful contractor must complete the tasks stipulated in section five (5) of this document to successfully complete the project.

1. Introduction and Background Information

Foskor milling is made up of 12 Vecor mills and 12 AC mills to grind the ore to the correct size. These mills get relined about every 4 years and then liner bolt holes that is worn out must be corrected with inserts. This scope is to supply a line boring service on the mills during a mill reline. The contractor must supply the equipment's and spacers to successfully re-install the liners where holes have worn out of specification.

2. Work to be performed by the Contractor.

Inspection will be conducted with Foskor workshop supervisor to mark all out of specification holes. Holes must be measured to determine which insert sizes and quantities.

The contractor shall supply the following equipment and items:

- All supervision, expertise, trained personnel, equipment, and transport to execute the work.
- The correct line boring equipment to execute work inside mill.
- The correct PPE to execute the work inside confined space.
- The correct tools e.g., 32-volt light/LED light.
- Correct inserts to be installed into the prepared holes on the mill.
- Contractor must at least have 100 inserts per size ready for a mill reline.

3. Training requirements (Contractor Employees requirements)

- Confined Space Authorisation
- Welding specialities
- Line Boring Training
- Lock out authorisation
- Noise Awareness
- Hot work Permit
- Working at height

Refer to 2c in the technical evaluation criteria in Annexure B.

4. Foskor Supply

- Power supply for drilling and lights.
- Water

5. Scope of Work

The contractor shall line bore and supply new inserts for all mill liners holes that needs to be repaired.

Normal hole size	31mm
New hole size	65 mm
New hole size	75 mm
New hole size	90 mm
Number of holes per mill	100
Number of inserts per mill	100

6. Specifications, Codes and Standards

The latest FOSKOR specifications are applicable to this Contract, amongst others,

- GV-1 Rev 12 - General Engineering Specifications for Contractors
- GM-1 Rev.2 - General Mechanical
- GA-1 Rev. 2 - Procedures for Enquiries and Tenders

Foskor Codes of Practice (amongst others)

- *ALL WORK CARRIED OUT IN TERMS OF THIS SPECIFICATION SHALL CONFORM TO THE REQUIREMENTS OF THE MINES HEALTH AND SAFETY ACT (NO. 29 OF 1996, AS AMENDED) AND THE RELATED REGULATIONS, WITH SPECIAL REFERENCE TO THE MANUFACTURER/SUPPLIERS/CONTRACTOR'S DUTIES.*
- All work carried out in terms of this specification shall also conform to the requirements of Foskor's General Engineering Specifications, Codes of Practice and other specifications stipulated above.

7 SAFETY ON SITE

- 7.1 At all times whilst any worker is on Foskor premises, he/she is subject to the Mine Health & Safety Act and all rules issued in accordance with the Act and Foskor rules, Code of Practices and Standard Operating Procedures.
- 7.2 Contractor and employees shall at all times adhere to Foskor SHEQ rules and regulations.
- 7.3 Contractor and employees must be authorized to do work on conveyors by Foskor.
- 7.4 The contractor 2.6.1 legal appointee shall ensure that all personnel are competent (competent as defined by Mine Health and Safety Act) to perform the task.
- 7.5 The contractor 2.9.2 appointee shall ensure that there is adequate supervision on the job at all times.
- 7.6 Before any work can start, a Permit to Work has to be approved by the relevant Foskor departments.
- 7.7 The main requirements to obtain a Work Permit are: -
 - 7.7.1 Foskor induction
 - 7.7.2 Medical examination and clearance
 - 7.7.3 Site-specific induction
 - 7.7.4 Risk assessment (HIRA)
 - 7.7.5 All licenses required for overhead cranes, gas cutting and welding.
 - 7.7.6 Proof of personnel training and previous related experience
- 7.8 Contractors will have to supply all safety equipment such as PPE as required by the risk assessment (HIRA).
- 7.9 Zero tolerance to safety infringements will apply. Any person found not to comply with Foskor safety standards may be removed from Foskor premises immediately. Any costs or delays will be for the contractor's account.
- 7.10 In accordance with Mine Health & Safety Act, employees may work a maximum of 55 hours per week and 12 hours per day (including overtime)

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

- a) Ensure that:
 - i) His driver/s are in possession of a valid national drivers 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.
 - ii) 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 (Excl 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)
- See Foskor COP 59, Trackless Mobile Machinery for details

7. Drawings

N/A

8. Contractor Evaluation

Contract evaluation will be based on the following:

- Pricing
- Availability to perform work
- BBBEE
- Submission of all mandatory documentation

Refer to the Pre-qualification criteria and the Technical evaluation criteria in annexure B.

9. Working on Site

Work to be performed in mill at the milling section and inserts to be manufactured at supplier workshop.

10. Performance

A two working day turnaround time, from the date of job commencement is expected from the contractor.

PRICING SCHEDULE

T036-23 – LINE BORING & INSERT BULLETS SUPPLY

Item	Description	UOM	BOQ / Year	Unit Price	Total
01	Line boring	Each	1050		
02	Manufacture & supply insert – 75 mm	Each	450		
	- 65 mm	Each	450		
	- 90 mm	Each	150		
03	Install insert	Each	1050		
04	Stripping of old insert	Each	1050		
05	Other (please specify)				
	Total excluding VAT				

PRE-EVALUATION REQUIREMENT			
1	Local Company 100% black owned		Submit Proof, including BBBEEE Certificates

Bid submission not meeting the pre-evaluation requirement will result in the bid being disqualified.

Evaluation Criteria (Technical)				
T036-23 Line boring and insert Bullets supply				
No	Technical Criteria Description	% Contribution	Proof/documents to be submitted	Notes
1	Company Experience, Capacity and Capability - <u>Section Weight not to be less than 45%</u>			
a)	Company experience – Previous similar Line boring of mill shells, installation of bullets inserts and supply of inserts Scoring: 1 year = 5%. 2 years 15%. 3 years = 20%. 4 years = 30%	30%	Provide reference list of projects, with values and contact numbers for verification	
b)	Company projects valued at R1 m or Above in the last 5 years in a Mining plant. Scoring: R 250 000 = 5% R 500 000 = 10% R1M and more = 20%	20%	Proof of Projects values and reference letter of awards	
c)	Company capability to provide Skilled Artisan, technicians and tools to perform the Jobs. Scoring: 1 year = 5%; 2 years 10%; 3 years = 15%; 4 years = 20%	20%	Supply list of Specialised equipment to execute Line boring and welding Jobs. Qualified welder on all types of welding. Employee CV's.	
2	Company Quality management <u>Section Weight not to be less than 25%</u>			
a)	Quality Planning, Quality assurance/control plan, Quality Control Scoring: No Quality Plan = 0; Quality Plan not	10%	Provide documentation of one (1) previous signed off Project plan.	

Evaluation Criteria (Technical)				
T036-23 Line boring and insert Bullets supply				
No	Technical Criteria Description	% Contribution	Proof/documents to be submitted	Notes
	signed off = 5 %; Quality Plan signed off = 10 %			
b)	Line boring and welding specialities and Equipment for Line boring availability	10%	Proof of Line boring equipment's with specialities of line hole welding	
	Scoring: No report = 0; Report not signed off = 5 %; Report signed off = 10 %			
c)	MQA based Authorisations Training on All employees	10%	Submit Proof Trainings (including Confined space Permit, lock out permit, Hot work Permit and Working at height)	
	Total Technical Score	100%		
Note: In order for the bid to be considered for commercial evaluation the bidder needs to score 70% and above, and comply to all mandatory requirements				