

SCOPE OF WORK

TENDER No.: /24

Description: Construction of Septic/Containment tanks for Establishing infrastructure in the South Pit

1. PRE-QUALIFICATION

- **CIDB Grading:** A CIDB grading of 2CE is required.

2. INVITATION TO TENDER

Foskor (PTY) Ltd. is cordially invited to submit a Request for Quotation (TENDER) for the supply and installation of septic/containment tanks, as well as the subsequent connection of these tanks to change houses, kitchens, and ablution facilities. This request pertains to the establishment of infrastructure in the South Pit. The attached document provides a comprehensive overview of all essential details relevant to the project.

2.1 DEFINITIONS AND ABBREVIATIONS

BOQ	–	Bill of Quantities	MHSA	–	Mine Health and Safety Act
BRA	–	Baseline Risk Assessment	NDT	–	Non-destructive Test
COC	–	Certificate of Compliance	OH&S	–	Occupational Health and Safety
COP	–	Code of Practice	OHC	–	Over-Head Crane
CTD	–	Critical task Descriptions	PEE	–	Portable Electrical Equipment
DAP	–	Diammonium Phosphate	PPE	–	Personal Protective Equipment
DB	–	Distribution Boards	QA	–	Quality Assurance
DWA	–	Department of water affairs	QC	–	Quality Control
DWG	–	Drawing	QCP	–	Quality control Plan
ECO	–	Engineering Change Order	QMS	–	Quality Management System
HDG	–	Hot-Dip galvanizing	RFI	–	Request for Inspection
HIRA	–	Hazard Identification and Risk Assessment	ROPS	–	Rollover Protection System
IFC	–	Issued for Construction	SANS	–	South African National Standards
ISO	–	International Organization of Standardization	SHE	–	Safety, Health, Environment
LDV	–	Light Delivery Vehicle	SHERQ	–	Safety Health Environment Risk & Quality
MAP	–	Monoammonium phosphate	TMMS	–	Trackless Mobile Machines
MCOP	–	Mandator Code of Practice	WBS	–	Work-breakdown structure

3. SCOPE BACKGROUND

- *Mining Operations (load and haul) have shifted their primary activities from the North Pit to the South Pit. Maintenance initially relied on using the haul road through the old PMC open pit, which later became unusable due to PMC pit subsidence. This failure eliminated the only reliable, unrestricted travel route to the North Pit*

for maintenance purposes. As a result, haul trucks now have to travel a long distance to receive minor services at the North Pit facilities. Additionally, the load and haul team begins their shifts at the North Pit and then transports to the South Pit, significantly impacting time and costs.

- To address the lack of critical facilities at the South Pit and minimize the impact on time and cost, it was suggested that operations be moved to the South Pit. Due to the scale of this project, the work has been divided into various scopes to facilitate execution. This particular scope involves the construction of septic/containment tanks and their subsequent connection to change houses, kitchens, and ablution facilities. The current establishment lacks these septic/containment tanks, making their construction essential for sanitation and hygiene.

4. COMPANY BACKGROUND

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 also 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.

5. SCOPE OF WORK – SUPPLY

5.1 SCOPE

5.1.1 Detail of Supply Requirements

- **Pre-Establishment Work for Potable Water Installation:**
 - Perform all necessary pre-establishment work for the installation of potable water in the South Pit.
- **Requirements:**
 - Construction of six (6) Septic/Containment Tanks with the following specifications:
 - One for grey water from the male change house (serving 40 males per shift).
 - One for black water from toilets in the male change house (serving 5 toilets).
 - One for grey water from the female change house (serving 20 females per shift).
 - One for black water from toilets in the female change house (serving 5 toilets).
 - One for grey water from a kitchen facility.

- One for black water from toilets (serving 8 toilets).
- Submission of the proposed system design to meet the specified requirements.

- **Supplier Responsibilities:**

- Clear and prepare the site.
- Excavate the area for the septic/containment tanks.
- Create a soil bed using a river sand and cement mix for tank placement.
- Supply and install all necessary accessories, including vent valves, elbows, T-pieces, PVC pipes, and other fittings.
- Backfill the tanks with stabilized material (river sand and cement mix).
- Account for and include any additional components necessary to ensure the proper functioning of the system.
- Supply and install all connection points for ablution facilities, kitchens, and change houses.
- Clean the site upon completion.
- Conduct a test run of the system before handover, with the client present to witness the process.

6. **PROJECT URGENCY**

Project urgency is defined below:

This is an urgent project that must be completed within 8 weeks, including the onboarding process.

7. **DELIVERY OF MATERIALS AND EQUIPMENT**

It is the responsibility of the Contractor to take delivery and off-load all equipment and materials covered under this Scope unless otherwise specified. The Contractor shall, at their own expense, be responsible for the delivery to the Site of imported plant and equipment, materials, and the Contractor's own plant and equipment in connection with the execution of this Scope. This includes, but is not limited to, securing permits and customs clearances, and covering all associated costs such as handling, storage, releasing, and transportation, as well as any duties, taxes, imposts, excise, and charges imposed by the South African Government, its agencies, or political subdivisions related to the supply and delivery of imported plant and equipment, materials, and the Contractor's equipment to the Site.

Note: *The contractor/consultant must clearly specify in their tender submission if there is any exclusion related to the Foskor scope (as detailed in the procurement scope and site meeting minutes). Failure to indicate any exclusion will be interpreted as acceptance of the full Foskor scope.*

8. **BATTERY LIMITS – INCLUSIONS AND EXCLUSIONS**

(Insert relevant text in context with the project – If applicable)

9. QUALITY

- i. The service provider must implement the necessary quality management systems and plans to ensure that the quality of their work meets the requirements specified in this scope of work.
- ii. The service provider shall be responsible for all resources required to execute the Quality Management System. This includes but is not limited to, developing the Quality Assurance Plan and performing Quality Control measures to ensure that deliverables comply with the specifications and standards outlined in the scope of work.
- iii. Any change requests or additional work resulting from an inadequate quality management system will be the responsibility of the service provider.
- iv. Foskor may appoint a third party to conduct Quality Control Inspections.
- v. This may include, but is not limited to:
 - Quality plan
 - Quality compliance – Performance and reports
 - Quality Assurance
 - Quality Control
 - Quality Administration – All documents, checks, measurements, reports, variances, analyses, and corrective actions must be properly filed and available upon request at any time. The file must include an index.
 - Test work, laboratory analysis, and filing
- vi. Foskor may also appoint a third party to measure and control quality related to Foskor's interests under this contract. The service provider is expected to collaborate with this third party.

10. DATA BOOKS

During the official handover, the service provider must submit a comprehensive Data Book that includes the following documents and information:

- a) All certificates, quality documents, and records, are cross-referenced for traceability purposes.

NB! ALL CERTIFICATES AND DOCUMENTS MUST BE CROSS-REFERENCED

11. MANUALS AND DOCUMENTATION

The following must be supplied:

- Commissioning and handover documents.

11.1 FORMAT OF DOCUMENTS AND MANUALS

Note! - All Manuals must be in English

- Hard Copy: Must be in the book or binding arch file format, durable, and of high quality.
- Soft Copy: Manuals, reports, and Data Books should be provided in Word, Excel, PDF, or other appropriate formats.
- Storage: On compact disk or data traveller.
- Language: English

12. DOCUMENTS / DRAWINGS ISSUED BY FOSKOR

Drawing or Document No	Title	Revision
Note	Please read your Scope of Work	
SOU-GA -000101-A0	South Pit – Service Workshop Layout	01

13. LEGISLATIVE REQUIREMENTS – SUMMARY

13.1 MINIMUM LEGISLATIVE REQUIREMENTS:

The successful or appointed service provider shall comply with:

- The Mines Health and Safety Act and its Regulations (latest revision), where applicable.
- The National Road Traffic Act and its Regulations (latest revision), where applicable.
- All applicable national and international legislative requirements and regulations.

14. PARAMETERS

14.1 DESIGN PARAMETERS

All plant and equipment will be designed to:

- Operate satisfactorily under atmospheric, ambient, and other conditions present at the site location.
- Ensure interchangeability of units and/or sub-parts throughout the plant to reduce spare parts holding requirements, considering existing plant equipment.
- Ensure reliability and maintainability, with a minimum availability of 98% required.
- Operate without undue vibration, stresses (temperature and built-in), or excessive noise.
- Comply with legal requirements in terms of the water license and the Department of Water Affairs (DWA).

14.2 SPECIFICATIONS, CODES, STANDARDS AND REGULATIONS

The Latest edition of the South African National Standards in effects at the date of projects design shall establish the minimum requirements for design, materials, and construction. This should be referenced with the Foskor General Engineering specifications and requirements of the Foskor SHERQ system (COP's)

No work shall be contemplated which is in breach of any legislation in South Africa – Typically:

- Water license (04/B72K/ACGIJ/962)
- Occupational Health and Safety Act
- South African Mine Health and Safety Acts and regulations (Act 29 of 1996)
- Explosive Acts and Regulations - South Africa
- DWA and the National Water Act.
- Foskor COP's
- Foskor Engineering Specifications
- The latest revisions of the SANS standardized specifications and Foskor Specifications as applicable at the time of quotation shall apply to this contract.

Note! The equipment to be capable of continuous operation 24 hrs/day, 365 days/year with operating availability equal to 100%.

The latest edition of the South African National Standards in effect at the date of the project design shall establish the minimum requirements for design, materials, and construction. This should be referenced in conjunction with the Foskor General Engineering Specifications and the requirements of the Foskor SHERQ system (COPs).

No work shall be undertaken that breaches any legislation in South Africa, including but not limited to:

- Water License (04/B72K/ACGIJ/962)
- Occupational Health and Safety Act
- South African Mine Health and Safety Act and Regulations (Act 29 of 1996)
- Explosives Acts and Regulations - South Africa
- Department of Water and Sanitation (DWA) and the National Water Act
- Foskor COPs • Foskor Engineering Specifications
- The latest revisions of the SANS standardized specifications and Foskor Specifications, as applicable at the time of quotation, shall apply to this contract.

Note: The equipment must be capable of continuous operation 24 hours a day, 365 days a year, with an operating availability of 100%.

14.3 SITE GEOGRAPHY

The plant is located in Phalaborwa, Limpopo, South Africa

14.4 AMBIENT CONDITIONS

- Ambient temperature

Summer	35 °C Avg.	50 °C Max
Winter	17 °C Avg.	2 °C Min

- Site Altitude: 380 m
- Prevailing wind direction: Generally South Easterly - Maximum design velocity 40 m/s (144 km/h)
- Very dusty conditions
- Average annual rainfall = 540 mm

14.5 PROJECT PLANNING/SCHEDULING

- A delivery schedule or promised delivery date must be submitted with the tender.
- Regular formal updates need to be submitted at an agreed frequency to the designated Foskor contact person.

15. GENERAL CONDITIONS – COMMERCIAL

15.1 EXTENSIONS, PENALTIES AND RETENTIONS

- Extension on the promised completion or Milestone date may be requested but needs to be approved by Foskor. The contractor should be in possession of a formal document issued via Foskor Procurement indicating that this request was approved
- Any additional works not defined in the order needs to be approved by Foskor in writing before any work commence.

Description	Condition	Duration
Penalties	2% per week	Late Delivery after promised completion date
Performance Bond	0% of Contract Value	0 Year after completion
Retention	5 % of Contract value	Release after 3 months
Type of Contract	Foskor General condition of contract	
Tender price validity	3 months	

Escalation	None	None
------------	------	------

All delays must be immediately brought under the attention of the section engineer and the responsible party agreed upon immediately.

16. TENDER EVALUATION CRITERIA

- 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 tender, the following information is required
- The following tender evaluation criteria will be used for adjudicating the Contractor submitted tender.
- Please provide the required documentation as requested in the "Proof/documents to be submitted" column. Please be specific when submitting documents by ensuring that they answer the item specified.
- Please use the annexure number as indicated to identify the proof submitted.
- Failure to submit the relevant documentation as requested in the Evaluation criteria document may lead to a disregard of the submitted tender.

16.1 MANDATORY REQUIREMENTS

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

No	Mandatory Requirements	Comments
1.	CIDB grading of 2CE	Submit proof of certification

17. EVALUATION CRITERIA (TECHNICAL) NOTE - THIS IS AN ELABORATED EXAMPLE - YOU NEED TO REDUCE SUBSTANTIALLY

Evaluation Criteria (Technical)					
TENDER(Insert TENDER Number)/25 - Installation of potable water for Establishing infrastructure in the South Pit					
No	Technical Criteria Description		% Contribution	Proof/documents to be submitted	Notes
1	Experience & Team competence - <u>Section Weight not to be less than 25%</u>				
1	Experience & Team competence - Section Weight not to be less than 25%				
a)	Company - Previous experience in plumbing and septic tank construction Scoring: 1 year 0% 2 years 50% 3 years 100%		15	Give a reference list of projects, with values and contact numbers for verification (Inclusion of purchase orders and/or reference letters)	<u>Annexure A</u>
b)	Competent Persons to run the project (including but not limited to plumbers, concrete hands, etc.) Scoring: No Comply 0% Comply 100%		10	Provide proof of certificates	<u>Annexure B</u>

Evaluation Criteria (Technical)				
TENDER(Insert TENDER Number)/25 - Installation of potable water for Establishing infrastructure in the South Pit				
No	Technical Criteria Description	% Contribution	Proof/documents to be submitted	Notes
2	Regulatory/ Legal / Licences / Registrations (where applicable)			
a)	Competent Persons to run the project in line with the MHSA (including but not limited to 2.6.1, 2.9.2, SHE Rep, etc.) Scoring: No Comply 0% Comply 100%	10	Provide proof of certificates	<u>Annexure C</u>
3	Company Capacity – <i>Weight not to be less than 25%</i>			
a)	Company - Execute construction according to a pre-approved Work Breakdown Structure (WBS) / Project Schedule Scoring: No Comply 0% Comply 100%	10	Provide WBS/Project schedule for this project with estimated delivery date including onboarding.	<u>Annexure D</u>
b)	A detailed method statement <ul style="list-style-type: none"> Scoring: Very vague with insufficient detail; many procedures are unclear or missing. 0% Some procedures are detailed, but many are still vague or incomplete. 25% Most procedures are detailed, but with areas lack specific information. 50% All procedures are fully detailed and specific, leaving no room for ambiguity. 100% 	20	Provide a detailed method statement for this project signed by project manager	<u>Annexure E</u>
c)	Quality assurance/control plan, Quality Control Scoring: No Quality Plan 0% Quality Plan not signed off 50% Quality Plan signed off 100%	10	Provide documentation of one (1) previous signed-off Project quality control plan with client representative sign-off.	<u>Annexure F</u>
d)	Contractor Site Equipment List (Project Specific) Scoring: No equipment 0% Partial Equipment 50% All Relevant Equipment 100%	10	Focus is LDV, concrete tools, plumbing tools, electrical tools, Hand tools, etc.	<u>Annexure G</u>
e)	Project team Organogram indicating names, positions, and trades for this project. Scoring: No Organogram 0% Organogram with some skills 50% Organogram with all relevant skills 100%	10	Submit an organogram with personnel's names, positions, and skills to be involved in this project.	<u>Annexure H</u>
5	Minimum Safety Training required on Foskor			
a)	Mining Qualifications Authority (MQA) - based Basic Health and Safety, First Aid, Hira. Scoring: No Training 0% Partial Training 50% All relevant personnel trained 100%	5	Provide proof of team compliance or plan indication of how compliance will be achieved.	<u>Annexure I</u>

Evaluation Criteria (Technical)					
TENDER(Insert TENDER Number)/25 - Installation of potable water for Establishing infrastructure in the South Pit					
No	Technical Criteria Description		% Contribution	Proof/documents to be submitted	Notes
	Total Technical Score		100.00%		
Note: In order for the bid to be considered the bidder needs to score 70% and above and comply with all mandatory requirements					

18. PRICING SCHEDULE

18.1 UNITS OF MEASUREMENT

The units of measurement described in the Bill of Quantities are metric units. Abbreviations used in the Bill of Quantities are as follows:

mm	–	millimetre	No.	–	number
MPa	–	megapascal	sum	–	lump sum
m ²	–	square metre	m ³	–	cubic metre

18.2 BILL OF QUANTITY (BOQ) - PRICING SCHEDULE

The quantities for this work are re-measurable:

NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
A.	PRELIMINARY AND GENERAL				
A.1	Site Establishment and De-establishment	sum	1	R	R
A.2	Safety, PPE, Work Permit, Licences, Safety File, Transport, Supervision, Quality, Training, Storage etc	sum	1	R	R
SUB-TOTAL (A):					R
B.	Earthworks				
B.1	Excavation	m ³	350	R	R
B.2	Supply and cast stabilizing mix (bedding for the tank)	m ²	180	R	R
B.3	Backfill and compact to Nature Ground Level with stabilized mix (NGL).	m ³	400	R	R

NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY	RATE	AMOUNT R
SUB-TOTAL (B):					R
C.	PLUMBING				
C.1	Supply and install 12500-litre containment tanks	No.	8	R	R
C.2	Supply and install 50mm HDPE pipe for water supply	m	830	R	R
C.3	Supply and install all but not limited to the pipes, fittings, valves, switches, etc. for the system control.	Sum	1	R	R
C.4	Excavate trench for pipe, including pipe bedding, pipe laying, and backfill (from existing to newly installed containment tanks).	m ³	200	R	R
C.5	Supply and install all but not limited to the pipes, fittings, valves, switches, etc. for the connections to the ablution facilities, kitchen and change Houses.	Sum	1	R	R
SUB-TOTAL:					R
TOTAL:					R

All price alterations must be signed for by the bidder confirming that such changes were made by the Bidder. **PLEASE NOTE THAT PRICE CHANGES WITHOUT A SIGNATURE WILL LEAD TO THE DISQUALIFICATION OF THE BID SUBMITTED.**

NOTE: The onus lies with the tenderer to make sure that all formulas and calculations are correct. Calculation errors discovered during the evaluation process will be logged as a non-conformance and the tender/quotation will therefore be disregarded