

Tender no:

SCOPE OF WORK FOR THE

DESIGN, FABRICATE, SUPPLY, INSTALL, TEST AND COMMISSION LIME DOSING SYSTEM AT THE SULPHUR SECTION.

Tender no:

Cost Code:

Revision¹: 0.1 see legend at bottom of page







Revised date:
08 August 2024

NAME	TITLE	Empl. no	SIGNATURE	DATE
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COMPILED – RECOMMENDATION

Takura Nyashanu	Process Engineer	505077	 SOS 07A	10/12/2024.
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APPROVAL TO PROCEED

Precious Buthelezi	Snr Manager Sulphuric Acid Plant	22171		12/12/2024
Ntsikelelo Lukope	Snr Manager Technical & CI	503496		11/12/2024
Charles Mavuso	Snr Manager SHREQ	504688		12/12/2024
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Sam Mbuyazi	GM, Acid Division	500441		21/01/2025

¹ Revision Legend:

0.n = Draft,

1= Final version

Thus first draft = 0.1, second draft = 0.2, etc, and final approved = 1.0

Should the final be revised for whatever reason the revision would be 1.1 etc.

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Section A: INVITE AND TENDER INSTRUCTIONS

A.1 Invitation to tender

A.1.1 Tenderers are invited to submit a tender in accordance with this Tender Document.

The Works consists of Designing, Fabricating, Installing and Commissioning a lime-dosing System

The tender Instructions are to be found in **Section A**.

The Contract Works Forms of Tender is stipulated in **Section B**.

The detailed Scope of Work and Specifications are to be found in **Section C**.

The Conditions of Contract are stipulated by **Foskor (Pty) Ltd, Procurement Department**.

A.1.2 At the time of tendering, any queries and/or doubts within the scope, specifications or drawings shall be referred to:

Designation	Buyer: Tenders and Contracts
For the attention of	
Telephone	
Fax	
Cell no	
Email	

A.2 Return of Tender Documents

A.2.1 One copy of this document, duly completed and signed by the Tenderer, shall be delivered in a plain sealed envelope, distinctly marked as follows:

TENDER		
Tender No.	FTP	The Manager Procurement
Contract Title: Design, Fabricate, Install and Commission the Lime Dosing system		FOSKOR LIMITED
		21 John Ross Parkway
		Richards Bay
Closing date & time:		

A.2.2 Tenders shall be placed in the **Tender Box at Foskor Richards Bay Main Administration Reception** no later than **12h00 noon** on the closing date

A.2.3 A tender sent by fax shall not be accepted.

- In case of Tenderers not being local, and not being able to hand deliver tender documents to the above-mentioned location, Tenderers may use an approved document courier for the purpose of

Tender no:

delivering the tender document to Foskor (Pty) Ltd. This would be subject to auditable proof of dispatch from the Courier Company (including time and date of dispatch).

- Such proof shall be faxed and confirmed as addressed to Superintendent: Tenders and Contracts, FOSKOR (PTY) LTD, 21 John Ross Parkway, Richards Bay, facsimile number as indicated under item A.1.3 before the closing time and date of the tender.
- Foskor shall take no responsibility for lost courier documents – prior to opening of tenders - and onus rests on Tenderer to keep duplicate of Tender Submission.
- In this case the sealed envelope shall remain addressed as per paragraph A.2.1, and shall be placed in a sealed courier bag with the following street address delivery instructions:

FOSKOR (PTY) LIMITED - (TENDER BOX)
21 John Ross Parkway
Richards Bay
3900

- A.2.4 Tenders will not be opened in public and under no circumstances will the price(s) at which any Contract was awarded be divulged to any person.
- A.2.5 In the event that the Tenderer did not submit a tender or if his tender was unsuccessful, the Tenderer shall return the Enquiry Document and Drawings within **14 days** to the **Superintendent: Tenders and Contracts**.

A.3 Site Inspection

An official Site inspection shall be held at the **Foskor, Richards Bay** site for the Tenderer to fully acquaint himself with prevailing site and works conditions. In so doing you are to ensure that you fully understand the context and extent of the works (refer B.5 – Site Inspection Certificate).

Date of Site Visit

Time of Site Visit

Meeting Venue

From: To:

Report at Main Security Entrance

Please wear the following protective clothing:

Overalls (Foskor Approved)
 Hard Hat
 Safety Shoes
 Safety Glasses
 Gas Escape respirator
 Hearing protection
 Gloves

Yes

Yes

Yes

Yes

Yes

Yes

Yes

IMPORTANT

- Please note that a Safety Induction is **MANDATORY** and all Tenderers to allow for at least **30 minutes** before the Site Meeting start, to complete the induction.
- The Site Visit / Inspection are **COMPULSORY**.

A.4 Examination and Completion of Documents

- A.4.1 The Tenderer shall examine all documents forming part of the Tender and submit his tender accordingly. All drawings, addendums, annexures received with the Tender documents must be returned with your company stamp and/or signature, as a comprehensive part of your Tender Submission. Failure to do so may result in disqualification from tender.

Tender in accordance with this format and submit documents as specified below.

- A.4.2 The Sections of this document shall not be separated in any way, nor shall any pages be detached therefrom.

- A.4.3 The Tenderers submission is to include all Financial and Contractual detail and be signed (by authorized person) and/or company-stamped together with tender submission.

A.4.3.1 Schedule of rates of Costs in detailed Breakdown or Labor Rates for the Works or Breakdown per Bill of Quantities

A.4.3.2 Initial Project Program of Works, Work Methodology, and Cash Flow (structured similarly to payment terms)

A.4.3.3 Schedule of Key Personnel on the Project

A.4.3.4 Schedule of Similar Contracts Undertaken

A.4.3.5 Site Inspection Certificate – signed by Tenderer as proof of attendance

A.5 Contract Documents Priority

The eventual Contract shall comprise the documents as stated in this tender document, your Tender submission by which you agree and the Foskor (Pty) Ltd Terms and Conditions, which shall be interpreted in accordance with the order of priority stated in the said Conditions.

A.6 Alterations by Tenderer

- A.6.1 Should the Tenderer propose any departures or modifications from the Conditions of Contract, Specifications, or to qualify his tender in any way, he/she shall set out his/her proposals clearly in the covering letter attached to this Tender with reference to the section of the document, failing which the tender will be deemed to be unqualified. Any proposed technical departures from Foskor (Pty) Ltd.'s Requirements or Specifications shall only be considered if submitted in writing together with a detailed motivation for such departures.

- A.6.2 The Tenderer shall include in respect of each proposed alteration the following:

- a) Reason for proposed exception.
- b) Suggested re-wording.
- c) Any effect on the tender price.
- d) Any effect on the execution of the scope of supply.
- e) Any effect on Foskop's overall program objectives.

If any of the above information is not supplied, the Tender may be regarded as non-compliant.

A.7 General

- A.7.1 Foskop (Pty) Ltd reserves the right to adjust arithmetical or obvious errors in the Tender. Such adjustments made by Foskop (Pty) Ltd will be communicated to the Tenderer prior to the acceptance of his Tender.
- A.7.2 The Tenderer (whether his Tender is accepted or not) shall treat the details of the Tender as private and confidential and no copies shall be made thereof without the permission of Foskop (Pty) Ltd.
- A.7.3 Foskop (Pty) Ltd is not bound to accept the lowest or any other Tender it may receive, nor to assign a reason for the rejection or acceptance of any Tender, and Foskop (Pty) Ltd has the right, after Tenders are opened, and before a Contract is awarded, to enter into negotiations and discussions with one or more Tenderers short-listed on a price, programme or technical basis, with a view to the clarification, improvement or amendment of any particular Tender.
- A.7.4 All Tenderers tender at their own risk and Foskop (Pty) Ltd is not bound to accept any Tender and under no circumstances whatsoever will be responsible for any costs incurred by any Tenderer in compiling or submitting the tender.
- A.7.5 Furthermore, Foskop reserves the right to accept only a part of the Tender, with due communication and agreement of the Tenderer.
- A.7.6 The Tenderer is required to submit a 'bona fide' Tender, intended to be competitive and not to fix or adjust the amount of the Tender by or under or in accordance with any agreement or arrangement with any third party. The Tenderer is also obliged to ensure that it has not and will not at any time before the hour and date for the lodging of this Tender do any of the following acts:
 - a) Communicate to any person¹ the amount or approximate amount of the proposed Tender except where the disclosure, in confidence, of the amount of this Tender was necessary for the preparation of the Tender.
 - b) Enter into any agreement or arrangement with any third party that shall disqualify from or that Foskop shall refrain from using.
 - c) Commit any act or omission that would be contrary to the Maintenance and Promotion of Competition Act 96 of 1979 and notices and regulations published in terms of that Act,

Section B: FORMS OF TENDER TO BE SUBMITTED

B.1 Schedule of Rates or Summary of Bill of Quantities

From Bill of Quantities – if applicable or → Qty x rate = ZAR

Tender no:

1.0	SUB TOTALS:		
1.00	Preliminary & General		A1
1.01	Design, Fabricate, Install & Commission lime dosing system		A2
1.02	Transport & Others		A2
Sub Totals Sum (Excluding VAT)			A3
2.0	Add: VAT	15%	D
3.0	Total Tender Sum (Including VAT)		A4

B1.1 In the event of their being any obvious errors of pricing, extensions or additions in the priced Schedule of Quantities attached, we agree to their being corrected, and the contract amount altered accordingly.

B1.2 We further undertake that this tender cannot be withdrawn or retracted for 90 (ninety) days from the closing date.

B1.3 Notwithstanding that, this tender is submitted by invitation, it is clearly understood and agreed that there is no obligation upon Foskop to accept the lowest or any tender.

B1.4 The tendered prices are fixed and firm for the duration of the contract, and unless otherwise agreed to in writing a 10% Retention (held for 12 months, unless otherwise specified) shall be deducted on all payments made for the Liability Period as defined in B.2. This clause also refers to 'Handover' as specified in B 2.1

WE AGREE TO A 10% RETENTION and 12 MONTHS DEFECTS-LIABILITY RETENTION PERIOD.

B1.5 **Obligation to Complete the Works – Performance Security:** The Tenderer shall obtain at his or her cost a guaranteed Performance Security from one of the registered and approved financial institution of 10% to the value of the tender, in assuring the proper contract performance of executing and completion of this scope of work. This guaranteed Performance Security is valid and enforceable until the Tenderer has executed the full scope of work obligations and successfully handed over the completed project. The Tenderer shall deliver this Performance Security to Foskop within 14 Days after the official written order has been issued to him or her. This guaranteed Performance Security shall be returned to the Tenderer within 30 Days after the scope of work obligations has been deemed complete and acceptable by Foskop.

B1.6 Unless or until a formal agreement is prepared and signed, this tender, shall serve as your written acceptance and constitute a binding contract between Foskop and Yourself.

Amount In Words:

Tender no:

Signed aton.....

Signature
For and on behalf of the Tenderer (duly authorized)

.....
Company Stamp

B.2 Initial Project Program of Works, Work Methodology and Cash Flow

(This is a workable schedule, and the Contractor is in no way obligated to these dates. An obligatory final programme will only be required once the tender is awarded)

Commencement Date (Guide: 6 weeks from tender close date)

Snagging/Modification List Date

Completion of Works/ Final Handover (Guide: Project duration)

Defects Liability Period Applicable (Start from Project handover)

Retention Payment:

6 Months
12 months from Project Completion & Handover (Refer B1.4)

OTHER IMPORTANT NOTES

- **'Defects Liability Period'** shall be that period in force for FOSKOR to call upon the Contractor/Consultant to rectify at no cost to FOSKOR (Pty) Ltd any defects of workmanship, quality, or practice; and shall remain in force **in parallel with the Retention Period** and any other duration agreed to.

- The Tenderer is to list and motivate any deviations in terms of Project Program and/or time allowed, and this is subject to approval by the Foskop (Pty) Ltd Engineer.
- It would be expected, in the event of critical work and/or work behind programme/schedule, should such be attributable to the Contractor, to make up the time and work and complete the work at no cost to Foskop (Pty) Ltd.
- The Tenderer shall within **7 (seven)** days of contract award submit a final detailed work methodology and programme, and the final work methodology shall be verified and approved by Foskop (Pty) Ltd.
- The Tenderer is welcome to propose alternatives work methodology or approach to work, that may be of mutual benefit. This would be submitted in the form of an Alternative (clearly marked); however, the Tenderer is **still to submit a tender in the form specified** in this tender.
- The Tenderer shall submit a Work Breakdown Structure (WBS) and compile a programme (use MS Projects or MS Excel to compile the Project Program).
- If the Tenderer is partially or wholly responsible for the design or design drawings according to which construction is specified, any corrections to design/design drawings shall remain for the Tenderers account for a period of 6 months (or as otherwise agreed) after project completion. This is to ensure that poor design or inaccuracy of designs is rectified at no cost to Foskop.

B.2.1 Project Completion and Handover; Retention

Unless otherwise agreed, Project Completion (handover), shall be deemed to be from date of Foskop issuing a Project Complete/Handover Certificate to the Contractor. This should be expected to be received within seven (7) days from date of receipt by Foskop of the complete Data Pack in its acceptably certifiable form (refer Section C of this document, **Quality Control**). Once the project has reached completion as defined by this scope, onus rests on the Tenderer to request from Foskop a Project Complete/Handover Certificate, which receipt shall define and signify the commencement of Retention Period (if applicable).

B.2.2 Initial Program to be Submitted

The interim and final project completion dates, as indicated in the above table should be used as the guideline for the Tenderer to compile the detail project schedule.

After the contract agreement is accepted (by signature of an agreement or acceptance of a Purchase Order) the dates shall be fixed and shall be applicable to the penalty clause as per agreement.

ATTACH GANT CHART AND/OR BAR CHART TO THIS PAGE

B.2.3 Table with Milestones to be Submitted

Using the critical path items from the program compile related Milestone Dates. Thus, the items/actions/ activities to be met that is critical towards the completion of the project

B.3 Schedule of Key Personnel on the Project

The Tenderer shall:

Tender no:

1. Complete schedule B.6.1 below concerning the Key Personnel on the project, indicating also if the person is employed by the Tenderer, a sub-contractor or temporary employed person.
2. Submit a project organogram showing the relationships and authority.

Key Personnel	Name and Surname	Full/Part Time on site, off-site?	Employed, Sub- Contractor or Temp?	Years Related Experience
Project Manager / Owner				
Site Manager/ Contracts Manager				
Quality Assurance and Control				
Document Control and Accounts				
Safety Officer				

These persons shall not be substituted without prior consultation with and approval from Foskor (Pty) Ltd.

Failure to submit this information at the time of tender could lead to disqualification of the tender.

B.4 Schedule of Similar Contracts Undertaken

Please provide a list of work done on contract of which the Scope of Works that are like the one described in this document (or attach references)

[illegible]

B.5 Schedule of Labor Rates for the Works

The rates for labor indicated below shall be the Total Cost to the Company (Contractor). It shall include for all the Contractor's profits, overheads, wages, accommodation, travelling, subsistence, and other costs relative to the employment by the Contractor of the personnel detailed, and for hand and portable electric or pneumatic tools and consumables normal to the trade of the respective personnel.

However, it will exclude indirect supervision as some are deemed to be included under the costs relating to the Conditions of Contract i.e., non-productive supervisors are deemed to be included in the rate.

The rates detailed herein shall not be subject to escalation.

The Contractor's rates per hour are based on a normal **9 hours per day**.

The application and use of these rates shall be at the sole discretion and subject to the prior approval of the Foskop designate representative.

Item No.	Category	Rate per Hour in Rands		
		Normal	Overtime	Sundays and PPH

B.6 Schedule of Equipment for the Works

The Contractor must list below all the items of major equipment, which he guarantees will be provided on site in perfect working order to complete the work. The lists of items of equipment shall provide the Contractor's warranty of ownership of such equipment unless specifically endorsed in this Annexure to the contrary as "hired" or "hire purchase equipment."

The rates for Equipment detailed below shall include all overheads, profits, and maintenance and running costs including the provision of drivers/operators where necessary.

Contractor's rates per day are based on **9 hours per day**.

The rates detailed herein shall not be subject to escalation. No payment in respect of standing time shall be paid for items of equipment not listed below.

This Schedule must be accurately completed. Phrases such as "adequate equipment will be provided" will not be accepted. The application and use of these rates shall be at the sole discretion and subject to the prior approval of the Engineer.

Item	Description	Rate/hr	Rate/Day	Standing Time/Hour

Tender no:

B.7 Site Inspection Certificate – To be signed by Tenderer

This is to **CERTIFY**, that we.....
Name (s in CAPITAL LETTERS) (Referred to on the Form as "We")

representing and being duly authorized by:

.....
(Name of Company and Address) (Referred to on the Form as "We")

1. Visited the SITE on (Date).
2. Received the TENDER Documents (including all attachments and subsequent correspondence related to this tender).
3. Carefully examined the SITE and make yourselves familiar with all local conditions likely to influence the WORKS and the cost thereof.

We further CERTIFY that we are satisfied with the description of the WORKS and explanations given by Foskor (Pty) Ltd and that we fully understand the nature of this TENDER.

I/We are,

Yours faithfully

SIGNATURE: _____

ON BEHALF OF: _____

DATE: _____

AS WITNESS: _____

Section C: SCOPE OF WORKS

C.1. Background, Present Situation and Proposed Solution

C.1.1 Background

Raw Sulphur is imported and off-loaded in the harbor where it is then transported by conveyor to Sulphur store. There are six reclaiming hoppers in Sulphur store. There is a conveyor system, magnetic separator, and automatic lime feeder which doses liming to achieve the desired Ph. Lime is stored in a silo from where it is discharged by means of rotary, into a screw feeder which transfers lime to Raw Sulphur on conveyor No. 10. The lime feeder is of a variable speed type and can be adjusted to feed lime as desired to control the pH within specification. Dosing can be adjusted from 0.1 to a maximum of 50kg/Ton depending on the quality of Raw Sulphur.

C.1.2 Present Situation

The current lime dosing system, which comprises of a 105m³ lime silo and screw feeder has been operational for more than two decades. The system is no longer effective due to tear and wear, hence a replacement with a modern dosing system is necessary.

C.1.3 Proposed Solution: Reason for this Tender

Contract comprises the design, manufacture, supply, installation, testing, and commissioning of all electrical, instrumentation and mechanical installation on lime dosing system. All work to be carried according to the relevant Foskor specifications. This proposal includes mainly the following:

C.2. Legislation, Standards and Codes of Practice

Latest revisions or amendments of the listed codes and specification are applicable to this contract:

Number	Title / Description	Revision
COP6	Control of Construction Work	Latest
Act 85 of 1993	Occupational Health and Safety (OHS Act)	Latest
SANS 10100	Structural use of concrete	Latest
S28 NEMA (1998)	Duty and care of environmental degradation	Latest
ASME IX	Welding Procedures/Qualifications	Latest
ASME V	Inspection Requirements	Latest
ASME V	NDT Specifications	Latest

All work listed in this scope of work shall be completed in accordance with the latest specifications and latest codes as listed. It is the responsibility of the Tenderer to be in possession of the latest standards and latest codes as listed above in the execution of this project.

C.3. Foskor Specifications

All work listed in this scope of work shall be completed in accordance with the latest specifications listed.

Those specifically applicable to this Tender is **marked with “YES”**, **however** it does not exclude other specification listed or implied, and it remains the Tenderer's responsibility to ensure that work execution and tender prepared is in line and meets the requirements of all standards indicated or not.

Number	Title / Description	Version	Applicable
OTHER STANDARDS on this Tender			
APPLICABLE FOSKOR SPECIFICATION on this Tender			
E003	Industrial Electrical Installations	Latest	Yes
EC1	Installation, Testing and Commissioning of Electrical Equipment	Latest	Yes
FC005	General Earth Works to Plant and Building	Latest	Yes
FD001	Design Criteria for Structures	Latest	Yes
FG001	General Requirements for Projects	Latest	Yes
FM001	General Mechanical Specification	Latest	Yes
FM003	Welding of Fabricated Equipment	Latest	Yes
FM003	Welding of Fabricate Equipment	Latest	Yes
FM432	Insulation of Vessels and Piping	Latest	Yes
FQ001	General Engineering Quality Requirements	Latest	Yes
FQ002	Non-Destructive Testing	Latest	Yes
FS001	Specification for the Fabrication & Erection of Structural Steel Work	Latest	Yes
FV001	Requirements Vessels, Tanks and Heat Exchangers	Latest	Yes
GM5	Pipe Standards Including Auxiliary Equipment	Latest	Yes
GM6/COP9	Engineering Drawing and Document requirements	Latest	Yes
GQ1	Quality Control Procedure for Contractors	Latest	Yes
GS1	Structural Steelwork and Plate Work Fabrication and Erection	Latest	Yes
MC001	Corrosion Protection Colour Coding	Latest	Yes

MC002	Scope of Corrosion Protection Richards Bay	Latest	Yes
MC004	General Plant Painting Specification Low Temperature	Latest	Yes
MC006	Repair/Touch-up of Damaged Steelwork	Latest	Yes
MC009	General Plant Protection High Corrosive Areas	Latest	Yes
SS-000000-Q-001	General quality requirements	Latest	Yes
SS-000000-S-001	Fabrication and erection of structural steelwork	Latest	Yes
DD-000000-S-001	Structural design criteria	Latest	Yes

Where there is contradiction between the Foskor Specification and Legislation, Standards and Codes of Practice, Foskor specifications must take precedence. It is the responsibility of the Tenderer to highlight to Foskor the contradictions on the above.

It is the responsibility of the Tenderer to be in possession of the latest specifications as listed above or implied in the execution of this project.

The Contractor is referred to the Specification mentioned for full descriptions of materials and methods referred to in these Bills of Quantities/Lump Sum documents, insofar as they apply.

The Tenderer is advised to study the referred to specification before pricing Bills of Quantities/Lump Sum documents.

No claim whatsoever will be allowed in respect of errors in pricing due to brevity of description of items in the Bills of Quantities/Lump Sum documents which are fully described when read in conjunction with the relevant Preambles and/or Specifications.

Suppliers of materials and the like, whose quality systems apply with one or more of the SABS/SANS ISO 9000 Series should be used whenever possible in the absence of a particular SABS/SANS Specification Standard Mark.

The Tenderer is hereby informed that where SABS/SANS Specifications are referred to in these Bills of Quantities/Lump Sums documents and Specifications thereto, then ONLY the Specification of Work Clauses will apply. The method of measurement and payment clauses will NOT apply to this Contract.

C.4. Project Requirements

The main works is to Design, Fabricate, Install and Commission lime dosing system.

The Tenderer shall further ensure that all work is executed with a detailed quantity of work and/or design detail is provided and complies with the specifications as set out in this document.

C.5 Plant Data

All work listed in the document will be constructed for installation at the **FOSKOR RICHARDS BAY PLANT, 21 JOHN ROSS PARKWAY**

C.6. Drawings and Technical Data

The following reference drawings, technical data and/or manuals remain the property of Foskor (Pty) Ltd and shall be returned to Foskor (Pty) Ltd on completion of the work.

C.6.1 Drawings:

C.6.1.1 System Description

The lime dosing system comprises of a 105m³ storage silo complete with hand railing at silo top. The silo is designed to be filled by bulk road tankers and is complete with silo supporting structure, operating platform, platform grating, access stairs, hand railing with silo access cat ladder and intermediate resting platform.

A filling pipe assembly will be connected to the road tanker from where a pneumatic conveying system will transfer the lime from the road tanker into the Lime storage silo.

The silo will be supplied complete with an inspection manhole and over under pressure valve. A vibrating bin discharger will aid in the flow of material out of the silo to prevent bridging and rat holing. The product will feed out of the silo into a dosing screw surge bin. This bin is kept constantly charged with product and the dosing screw complete with a forced cooled motor then feeds the product, at the required feed rate, into a horizontal transfer screw feeder. The horizontal transfer screw feeder will in turn transfer the lime to an existing belt conveyor transferring sulphur. The screw conveyor design should include an access hatch for maintenance purposes.

C.6.1.2 Drawings

Lime Screw Conveyer/Feeder		
Drawing No.	Title / Description	Revision
DA350936	Lime screw feeder	Latest

C.6.2 Technical Data:

LIME SILO TECHNICAL DATA	
Code of Design and Fabrication	API 650 Latest Edition
Material	Quick lime
Density	1g/cm ³
Design Requirement	
Heat Treatment	None
Insulation	None
Painting	As per MC004 & MC010
Material of Construction	
Equipment	EN10025-S355JR

All work listed in this Scope of Work shall be completed in accordance with the latest copies of drawings/specifications as listed above. It is the responsibility of the Tenderer to ensure that the Tenderer has the latest copies of drawings/specifications as listed above for the execution of this project.

On completion of the project the Tenderer must certify all documentation and drawings for correctness and conformance, specifying which standards and regulatory acts these conform to.

C.7 Scope of Work

Foskor is responsibility for the entire scope of work:

- To provide relevant detail drawings for all equipment that might be required.
- To review and approve all new designs and new drawings prior to fabrication.
- To appoint AIA for the duration of this scope to conduct all relevant inspections, standard compliance, and quality assurance. AIA to keep separate records of all Quality related Documentation.
- To supply electricity and water.
- To provide ablution facilities. However, should major demand arise, the tenderer will have to provide portable ablution facilities themselves.
- To provide necessary support on all required Electrical and Instrumentation installation and commissioning.
- To conduct isolation and issue clearance. However, the tenderer to send at least three representatives on HIRA training so that the tenderer can apply for their daily clearances.

Tender no:

- To provide scrap removal skips as and when required.
- To commission the system together with the tenderer as per Foskor procedure.
- The methodology shall contain sufficient detail to assure Foskor that the Tenderer has a detailed understanding of the work and has the staff and resources to support the project.
- A final work methodology shall be verified and approved by Foskor on the contract award.
- Failure to submit this methodology at the time of tender will result in the disqualification of the tender.
- A final, detailed work methodology shall be submitted within 7 working days of the contract award.

Tenderer's responsibility for the entire scope of work:

- To provide services professionally on this Turn-key Project to Design, Fabricate, Install and Commission lime dosing system.
- To approach this project in a phased manner for constructing, installing, and commissioning of lime dosing system.
- In preparation for the new installation, the Tenderer to remove, relocate and re install any existing services, installations, e.g., electrical, instruments and supports with minimum plan operation disruption that might be on the way for the new installation.
- To provide cranes and scaffolding when and where it is required on Foskor site for installation.
- To provide all rigging services and rigging equipment when and where it is required on Foskor site for installation.
- To supply of all engineering services, all equipment, materials, labor, transport, supervision, and consumables to complete successful the scope of works.
- To always double check on site physically the sizes and space available for these designs, fabrication, and installation.
- To manage good housekeeping of the site always.
- The tenderer to send at least three representatives on HIRA training so that the tenderer can apply for their daily clearances.
- Tenderer must comply with all the requirements of this document and supply proof of any documentation as it may be required by Foskor before issuing of official order.
- Proposal drawings shall be the supplied as CAD files, PDF files, paper copies thereof reflecting the relevant information in accordance with the request of Foskor Limited. All the applicable Engineering design data shall be an integral part of the total package and supplied with the Proposal drawings. Final four copies to be submitted at Foskor after commissioning.
- All drawings work shall be done in accordance with SABS 0111 latest revision, the applicable Foskor Limited Engineering Specifications and Industry accepted standard drawing practice.
- Request for drawings shall be drawn on the Foskor Template provided by the Foskor Drawing Office, using the company's name in the drawn by block.
- The Tenderer to submit the following information for approval to an AIA before starting fabrication: Design Calculations, Quality Control Plans, Welding Procedures, Material Certificates, General Assembly drawings
- The Tenderer to ensure that the design and Drawings are approved prior fabrication commences.
- After Kick Off Meeting and Signed QCP the Tenderer to commence with the fabrication of the S
- To ensure that the supply of a lime feeder with all supporting drawings, documentation, and data sheets as well as technical support should be carried out in a controlled manner, the Tenderer shall demonstrate this by means of the internal quality system, which shall include a QCP, WPS,

PQR, Weld Map, Repair Procedures, Material Certificate and Design Calculations. The QCP must be approved by AIA and Foskop before commencement of any work.

- The Tenderer shall supply all the Bolt and Nuts for all connections.
- As a minimum the Tenderer must provide a nameplate which consists of the following information:
 - Name of Manufacture
 - Country of Origin
 - Year of Manufacture
 - Manufacture's serial number
 - Name, number & date of the Standard/Code of Design
 - Mark of an Approved Inspection Authority (when required)
- Name plate to be attached to the feeder as per Foskop Project Leader instruction.
- The methodology shall contain sufficient detail to assure Foskop that the Tenderer has a detailed understanding of the work and has the staff and resources to support the project.
- A final work methodology shall be verified and approved by Foskop on the contract award.
- Failure to submit this methodology at the time of tender will result in the disqualification of the tender.
- A final, detailed work methodology shall be submitted within 7 working days of contract award.
- Tenderer to do all the civil work that is required.
- Installation, commissioning of the lime feeder to be done by the Tenderer.
- Tenderer to provide all the civil work details.
- Removal of existing motor, gearbox, rotary, and instruments shall be done by the tenderer.
- Compliance with all legislative requirements and relevant Foskop Policy and Procedures especially COP6 Latest versions, is a necessity.
- The Tenderer shall make provision and comply to OSHAct No.85 of 1993 and its' Latest Regulations on Latest Edition.
- Welding procedure qualifications and welder performance qualifications shall be carried out in accordance with the Welding Processes acceptable to Foskop, provided they are qualified, include:
 - Gas Metal Arc Welding (GMAW)
 - Submerged Metal Arc Welding (SMAW)
 - Gas Tungsten Arc Welding (GTAW)
 - Submerged Arc Welding (SAW)
 - Flux Cored Arc Welding (FCAW)
 - Any other process is subject to the approval of Foskop Engineer.

C.7.A Construction Site

- Lime dosing system to be constructed either on site or at tenderer's workshop and to be assembled on-site.

C.7.I Corrosion Protection

- The Tenderer to obtain Foskop Latest Corrosion Protection Specification, especially MC004 and MC010.
- The Tenderer to provide access scaffolding for the application of corrosion protection of the entire lime feeder.

- All QC to be supplied and daily report sheets stating progress, planning, humidity, steel temperatures. Dew points, testex with abrasive blasted profile etc., plus digital images on all progress of work from blasting to final inspection.
- The Tenderer is responsible for the removal of all grid blasting material and the loading thereof inside skips provided by FOSKOR.

C.7.J Electrical and Instrument Requirements

- The feeder is equipped with electric motor, rotary, screw feeder and the tenderer shall be responsible to ensure that all E&I instruments are working after installation of a new lime feeder.

C.7.K Mechanical Requirements

- Rigging crew
- Crane (If necessary)

C.7.L SHREQ Requirements

- All rigging procedures to be followed whilst installing the lime feeder.
- Safety is our number one priority at Foskor.

Basis of Price

- The Tenderer to supply as per the complete Bill of Quantities as submitted with this tender document.

C.7.1 Scope of Work - Extent

The Contractor understands and shall fully satisfy the scope of required services, as described in the tender **FTP** handed out at the site inspection held on (date) _____, which is generalized as follows: to Design, Fabricate, Install and Commission lime feeder.

1. Until otherwise notified, Foskor (Pty) Ltd shall supply representative for this project to give instructions and to provide information to you on Foskor's behalf.
2. It is preferred that the supplier submit contact details for a designated 'point of contact' person who will be authorized to receive information and act on supplier's behalf.
3. Foskor's Health & Safety Representative will assist and guide with all matters relating to the Health & Safety specifications and Construction Regulations relating to this assignment.
4. The Tenderer to supply and appoint its own Health & Safety Personnel for the entire project.
5. A pre-requisite of this contract is that the supplier confirms that he shall carry the necessary professional/construction indemnity insurance cover to the extent of the liabilities contemplated.
6. The Tenderer should determine the work methodology and approach. However, it is imperative that the outcome of the works meets all the criteria related to this project.

C.7.2 Site Conditions

The site is located on the Foskor (Pty) Ltd Richards Bay Plant, approximately 200 meters from the main entrance, at the section of the plant known as Sulphuric Acid Plant. The Tenderer is deemed to have viewed the site and to have thoroughly acquainted himself with the extent, nature and conditions affecting the work to be done before submitting his tender.

Access to the area is free of obstructions, however the Tenderer must take note that unexpected leaks if any will take priority for containing of these and returning to a safe working condition.

It will be imperative for the successful Tenderer to liaise with the Foskor (Pty) Ltd.'s designated team leader (Foskor representative) to ensure safety whenever site access is required.

Full Foskor approved acid resistant PPE (personal protective equipment/clothing) must be always worn/used.

Be cautious of Foskor equipment, employees and contractor employees always doing their routine maintenance and daily duties in the area.

As it will be deemed that the prevailing conditions have been considered when tendering, no claims for extras arising from failure to observe all site conditions will be admitted.

C.7.3 Services which are known to exist on the site

The following services exist on the site:

- Raw sulphur
- Electrical and Instrumentation Cables.

Tender no:

7.3.1 Other known services (e.g., Sulphur spillage)

7.3.2 Foskor Supplied Services

Foskor (Pty) Ltd shall be responsible for:		Applicable:
1	Supply a copy of the relevant Foskor Procedure Specification(s).	refer C.3
2	Supply a copy of reference drawings if required.	refer C.6
4	Provide access to electricity connection points <ul style="list-style-type: none"> Any connection and consumption will be monitored by Tenderer and verified by Foskor on defined intervals (usually at the beginning and end of contract) 	YES
5	Provide access to potable water <ul style="list-style-type: none"> Connection and consumption would need to be monitored by Successful Tenderer (Contractor) and verified by Foskor on intervals (usually at the beginning and end of contract) defined by Foskor 	YES
6	Provide a suitable area for site establishment for Successful Tenderer (Contractor). <ul style="list-style-type: none"> Successful Tenderer to formally in writing motivates, request and define the area and services it deems necessary for site establishment. Foskor will at its own discretion (if request is approved) allocate a site establishment area, however Foskor can should it deem necessary retract or re-define its approval by giving reasonable notice to the successful Tenderer 	ON REQUEST
7	Provide access to ablutions facilities. (Not change rooms) <ul style="list-style-type: none"> Successful Tenderer (Contractor)'s workers to be fully dressed in required PPE when coming on site. The successful Tenderer to ensure that its workers/subcontractors/ supplier that are making use of facilities, do so in an orderly and well-mannered way. Successful Tenderer is not allowed to make use of Foskor's change room or tearoom facilities unless agreed to in writing. The successful Tenderer might be called on to assist with the maintenance and cleaning of ablutions, should Foskor at its discretion believe it be necessary. Cost associated with such cannot be claimed from Foskor (Pty) Ltd. 	YES
8	Assist in issuing of work clearances and HIRA certificates.	YES

7.3.3 Successful Tenderer (Contractor) Responsibilities

The successful Tenderer (Contractor) shall be responsible for (inter alia):		Applicable:
1	Supply of own labor, supervision, equipment, specialized manpower and other staff to fulfill the scope of work.	YES
2	Supply suitable (approved) Personal Protective Equipment (PPE)	YES
3	To ensure that all work is reviewed by designated Foskor (Pty) Ltd representative at all stages and/or agreed milestones of the project. All work completed needs to be inspected and approved by the designated Foskor representative (e.g., Project Supervisor/ Manager)	YES
4	After installation/construction and commissioning the successful Tenderer shall conduct final inspection of all work together with designated Foskor (Pty) Ltd representative to compile SNAG list.	YES
5	To ensure that all acceptance approvals as per the Quality Control Policy (QCP) are received before work is finally handed over.	YES

Note that concerning above:

- No claims towards losses will be accommodated.
- All items that the Successful Tenderer will bring to Foskor (Pty) Ltd, will be subjected to review and approval by Foskor (Pty) Ltd and shall conform to Foskor procedures.

C.7.4 Certification by Recognized Bodies

Only Tenderers registered with the relevant Board (e.g., Electrical, National Building, etc.) of South Africa in accordance with the Regulations of the Occupational Health and Safety Act will be accepted and permitted to do work under this contract.

C.7.5 Requirement for the termination, diversion, or maintenance of existing services

Only Applies if/where electrical conductors, pipe conduits, electrical transmitters, ducting, or ventilation services are affected. Unless identified as part of the scope, the Contractor must immediately bring to Foskor's attention any previously unspecified or obstructing services existing in his area of work and without terminating/diverting/hindering such services.

C.7.6 Nominated Sub-Tenderers

Should the tenderer anticipate using Subcontractors for any part of the scope, these must be specified below.

The following Sub-Tenderers are nominated:

Contractor	Concerning Works	Contact

C.7.7 Invoicing and Payment

Payment will be made by Foskor (Pty) Ltd, after approval (with consideration for the construction, completion and defects corrections of the Works) by the Foskor (Pty) Ltd.'s Project Representative (i.e., Engineer, Project Supervisor) of the submitted Payment Certificate to the Tenderer within **30 (thirty)** days from the date of the Tenderers approved invoice.

The invoice shall be approved in accordance with the provisions of Foskor (Pty) Ltd.'s terms and conditions.

The invoice submitted is to be in a format acceptable to the Foskor (Pty) Ltd.'s Project Representative and need to contain the following minimum information:

- Company details, registration no and VAT registration no,
- Purchase Order no & Date of Invoice,
- Copy of Purchase Order,
- Detail description of work done to date,
- Value of the current claim and work done (excl. VAT),
- VAT charged.

C.7.8 Standing Time

Standing time is defined as a period measured in hours when the Contractor's normal operational cycle is affected by Foskor (Pty) Ltd and results in normal stoppage or major disruption to the regular progress of the Works.

Payment to the Contractor for standing time will be certified only where, in Foskor (Pty) Ltd.'s opinion, the delay was clearly beyond the reasonable control of the Contractor and the Contractor further took all reasonable measures to avoid or reduce such delay and such delay imposed direct costs to the Contractor.

C.7.9 Progress of Works

Should Foskor (Pty) Ltd at any time be of the opinion that the rate of progress of the Works or any part thereof is too slow to ensure the completion of the Works or any part thereof by the Completion Date, Foskor (Pty) Ltd shall so notify the Contractor in writing, with specific reference to this Clause, and the Contractor shall thereupon, subject to the approval of Foskor (Pty) Ltd take such steps as are necessary to expedite progress so as to complete the Works or the said part thereof by the Due Completion Date.

C.7.10 Penalty

If the Contractor, by the Due Completion Date, fails to complete the Works to the extent which entitles him to receive a Certificate of Practical Completion, the Contractor shall be liable to Foskor (Pty) Ltd for an amount of **0.1% for every Calendar Day that the works is late or such portion of the contract price as is associated with that part of the Works.**

The imposing of such penalty shall not relieve the Contractor from the obligation to complete the Works or from his obligations and liabilities under the Contract.

C.7.11 Claims: Extension of Time for Completion, Additional Payments or Compensation**C.7.11.1 Claims Procedure**

The following provisions shall apply:

- i. Claims are to be submitted in writing within **7 days** after the circumstances, event, act, or omission giving rise to such claim has arisen or occurred to the Foskor (Pty) Ltd Project Representative
- ii. Submit **written notice** to the Foskor (Pty) Ltd Project Representative of the intention to claim within **7 days** after the circumstances, event, act, or omission giving rise to such claim has arisen or occurred. The Notice and subsequent claim to set out:
 - a. Of the circumstance, event, act, or omission giving rise to the claim concerned.
 - b. Provisions of the portion of the contract on which he intends to make the claim.
 - c. Length of extension of time, if any, claimed and the basis of calculation thereof, and
 - d. The Price Adjustment, if any, claimed and the basis of calculation thereof.
- iii. If the Contractor cannot reasonably comply with any of the provision above within the said period 14 days, he shall:
 - a. Notify the Foskor (Pty) Ltd Project Representative in writing of his intention to make the claim and comply with such requirements as he reasonably can.
 - b. Deliver additional information in writing that is reasonably required by Foskor (Pty) Ltd; and
 - c. Comply as soon as practical with such requirements as described above in this clause, within a time agreed to by the Foskor (Pty) Ltd Project Representative.
- iv. In the event of failure to comply to any of the provisions, the claim would not be accommodated and Foskor (Pty) Ltd would be discharged of all liability in connection with the claim.

C.7.11.2 Extension of Time for Completion

The whole works shall be completed within the time agreed upon.

If any circumstances of any kind whatsoever may occur and as such, fairly entitle the Contractor to any extension of time for the completion of the works or portion thereof, then the Foskor (Pty) Ltd Project Representative will consider a claim duly submitted.

C.7.12 Cancellation of the Contract by Foskor (Pty) Ltd

If:

- (a) (i) The estate of the Contractor shall be sequestrated (provisionally or finally), or
- (ii) The Contractor shall publish a notice of surrender of his estate as insolvent, or
- (iii) The Contractor, being a company or a close corporation, shall go into liquidation (provisionally or finally), or

- (iv) The Contractor shall assign the Contract without the consent in writing of Foskor (Pty) Ltd having first been obtained, or
- (v) The Contractor shall enter a compromise with the general body of his creditors, or
- (vi) The Contractor shall have an execution levied on his goods, or
- (b) the Foskor (Pty) Ltd Project Representative shall certify in writing to Foskor (Pty) Ltd, and to the Contractor/Consultant, with specific reference to this Clause, that in his opinion the Contractor/Consultant:
 - (i) has abandoned or repudiated the Contract, or
 - (ii) has, without reasonable excuse, failed to commence the Works in terms of the time allowed and agreed to, or
 - (iii) has suspended the progress of the Works without due cause, or
 - (iv) has failed to proceed with the Works with due diligence, or
 - (v) is not executing the Works in accordance with the Contract, or
 - (vi) has, without the approval of the Foskor (Pty) Ltd Project Representative, subcontracted any part of the Contract, or
 - (vii) has failed to provide the Surety ship, Professional Indemnity within the time stipulated and for 14 days after receiving a written notice from the Foskor (Pty) Ltd Project Representative, referring specifically to the default concerned and to this Clause, failed to remedy the default,

Foskor (Pty) Ltd may, by written notice to the Contractor, terminate the Contract and withhold any payments due until further notice.

C.7.13 Urgent remedial work

All designs changes or remedial action must be communicated to the Foskor Engineer, or the authorized Foskor Designate. Approval of such must be sought and received as early as not to impose undue costs and delays. Should there however be remedial work necessary, the Contractor shall, upon approval from the Foskor Engineer/Designate, effect these with care, accuracy, and speed, so as not to impose undue extension of time and /or cost.

If any work as done by Foskor (Pty) Ltd is work which the Contractor was liable to do at his own expense under the Contract, all costs incurred by Foskor (Pty) Ltd in so doing shall be determined by Foskor (Pty) Ltd or its agent and shall on demand be paid by the Contractor to Foskor (Pty) Ltd.

C.8 Foskor Safety Documents to be submitted, Environmental and Site Management

C.8.1 SHREQ Requirements

The successful Tenderer will be required to comply and ensure continuous compliance with Foskor standards and national regulations:

- Compliance with COP6 (Contractor Management).

- Compliance and signing of Section 37(2) Agreement in terms of the OHSAct No.85 of 1993 at the Foskor (Pty) Ltd Safety Department.
- Compliance with Legislation requirements which includes the OHSAct, NEMA (National Environment Management Act) and other relevant applicable Legislation.
- * *Copy of requirements available from Foskor SHREQ Department.*

C.8.2 Environmental Management Specifications

To ensure that the construction works is designed for an environmentally sensitive area, strict compliance to the Environmental Management Plan (EMP) guidelines may be requested after appointment of the contractor.

The EMP shall be part of the terms of reference for all contractors/consultants, sub-contractors/consultants, and suppliers.

A copy of the EMP requirements is available from Foskor (Pty) Ltd SHREQ department.

All MSDS's to be submitted to Foskor (Pty) Ltd.

Waste disposal needs to comply to Foskor (Pty) Ltd Waste Management Plan.

C.9 OHSA 1993 Health and Safety Specification

This specification covers the health and safety requirements to be met by the successful Tenderer (Contractor) to ensure a continued safe and healthy environment for all workers, employees, and subcontractors/consultants and for all other persons entering the site of works.

This specification shall be read with the Occupational Health and Safety Act (Act No 85 and amendment Act No 181) 1993, and the corresponding Construction Regulations 2003, and all other safety codes and specifications referred to in the said Construction regulations.

C.9.1. Health and Safety Induction

The successful Tenderer (Contractor) shall ensure that all employees under his control, including the subcontractors/consultants and their employees, undergo a health and safety induction training course by a Foskor competent person before entering site.

- a. The Contractor shall ensure all his/her personnel have attended the Safety Induction, by Foskor (Pty) Ltd before they enter site.
- b. The Contractor on entering site, must always wear Foskor minimum required PPE namely safety glasses, acid resistant overalls, safety harnesses (on heights), safety boots or steel cap gumboots, ear protection and **gas masks (Half mask double filter – screw type with filter type A1B1E1K1 – North Safety Product or similar approved product) and goggles (Uvex ultra vision – W1663459B – DIN CE 0196) preferably in a pouch.** Should a Contractor be found on site without the above-mentioned safety clothing, he will be removed from site and will not be allowed to return. FFP3 dust mask fitted with an exhalation valve must be used when working in dust in on the B&D Store.
- c. **Overalls must be Blue Sweet Orr overall (80% Polyester 20% Viscose Rayon Acid repellent) with Company names either on front of jacket or back OR Blue North Safety Acid/Flame overall (Flame retardant acid resistant anti-static ATPV**

15.4CAL/CM2) with company names either on front of jacket or back and fluorescent reflective strips to be stitched onto sleeves and on the knees.

- d. The Contractor shall demarcate the relevant work area. The Contractor shall supply and erect an appropriate name board with all relevant information and contact details at the work area.
- e. The job risk assessment shall be carried out at the start of each shift. This risk assessment shall cover all activities planned for the relevant shift. The risk assessment shall be submitted to Foskop (Pty) Ltd at the start of each day shift and each night shift.
- f. The Contractor must take safety precautions when working on site.
- g. The Contractor must remove all their equipment within 48 hours after project completion/closure.
- h. A complete safety file to be submitted to Foskop (Pty) Ltd Safety Department before any work commences.
- i. The Contractor's vehicle when entering the Plant must always have rotating orange lights on.
- j. **The Contractor and their employees must undergo a full medical at either Foskop (Pty) Ltd's Clinic or Caredoc Richards Bay or their approved by Foskop (Pty) Ltd. A full lung function test must be done. If a project is longer than twelve months, then a complete medical including lung function tests must be done again and thereafter the lung function test. Medical certificates are valid for one year only. For medical costs and bookings please contact Sister Larna Pieterse at Foskop (Pty) Ltd Clinic on 035 902 3287.**
- k. A once-off fee is also required for access cards from Foskop Security. Please contact the Foskop (Pty) Ltd Security Reception at 035 902 3267 for information.
- l. No access to elevated platforms, roof and scaffolding will be allowed during rainy days.

A SAFETY PLAN FOR THE WORK TO BE DONE BY THE CONTRACTOR

The Contractor must appoint a Safety Officer with at least a Diploma in Safety Management or SAMTRAC or both on a full-time basis to conduct the following responsibilities:

- 1) Conduct and submit audits monthly.
- 2) Conduct and submit inspections monthly.
- 3) Compile and submit safety monthly report to Safety Department.
- 4) Perform safety talks and awareness training and submit evidence to Foskop.
- 5) Visibility on site.
- 6) Conduct inspections on PPE and provide evidence to Foskop.
- 7) Continuously update Safety File.
- 8) To attend weekly meetings at Foskop.

Tender no:

- m. The Contractor to submit a comprehensive task-based risk assessment that has acknowledged the Foskor baseline risk assessment and method statement.
- n. The Contractor to appoint a full-time Supervisor to manage and supervise all the activities of his/her employer.
- o. All new work activities must have scope of work and be communicated to Safety Department via Projects before starting the work with exception of emergency breakdowns.
- p. All Maintenance emergency works and Consultants are exempted from items n to r.

N.B.

The Contractor that has been awarded work must register with **HSEC Online**, which is a Contractor Management System for Foskor Acid Division where all Contractors are required to submit their Safety File.

MANDATORY AS ENVISAGED BY SECTION 37(2) OF THE ACT

By the submission of a tender, any tenderer will, if awarded the contract to which this tender document relates, be deemed to be the mandatory as envisaged by Section 37 (2) of the Act.

As a mandatory the successful tenderer will be deemed to be the "principal contractor" and an employer in his/her/their own right with duties as prescribed in the Act and accordingly will be deemed to have agreed to be solely responsible for ensuring that in connection with the service to which this tender document relates, all work will be performed in accordance with the Act.

It is further noted that: -

- a) The Contractor shall comply with all Foskor Regulations and Safety Standards.
- b) The Contractor shall fully comply with the OHS Act (Act 85 of 1993).

IMPORTANT NOTE

The above is a summary of some of matters as defined in the Act. The successful Tenderer (Contractor) is required and advised in his own interest to make a careful study of the Act and the Construction regulations.

Ignorance of the Act and the Regulations will not be accepted in any proceedings, as valid reason if non-conformance to the Act and the Regulations are committed.

C.10. Applicable General Conditions of Contract

Unless expressly otherwise indicated, Foskor General Conditions of Contract and the FIDIC terms of Contract would apply, and is available from the Manager Procurement Foskor Richards Bay.

C.11. Quality Management

The successful Tenderer is to adhere to Foskor (Pty) Ltd.'s Quality Management System and specifications incorporated in this Tender Document.

To ensure that all installations are carried out in a controlled manner, the Contractor shall demonstrate this by means of the internal quality system, which shall include as a minimum a QCP for each piece of equipment. The QCP must be approved by Foskor before commencement of any work.

C.11.1 Quality Control:

- i. A detailed QCP (Quality Control Plan) shall be submitted within 3 days of contract award.
- ii. The quality of work must be always monitored and controlled at a high level.
- iii. At each hold and witness point all work shall be suspended until the specified inspection has been completed and the QCP updated and signed accordingly by Foskor (Pty) Ltd or its representative.
- iv. At each milestone, the designated Foskor (Pty) Ltd Quality Representative must approve the quality and standard of work being produced.
- v. It shall be the responsibility of the Successful Tenderer (Contractor) to give Foskor (Pty) Ltd timely notice of hold and witness points requiring their intervention.

C.12 Summary of Documents to be Submitted with this Tender:

1. Priced Bill of Quantities
2. Work Methodology
3. Work Breakdown Structure (WBS)
4. Initial programme (Bar Chart/Gantt Chart)
5. Milestones
6. Quality Control Plans (QCP)
7. Materials Technical Data Sheets
8. Material Safety Data Sheets (MSDS)
9. Welding Procedures and Welding Non-Destructive Testing

Section D: Bill Of Quantities

Element	UNIT	Quantity	Price per Unit	Total Cost
EQUIPMENT				
1. 105m ³ lime Silo				
2. Filling pipe Assembly				
3. Storage silo structural work (with operating platform)				
4. Vibrating bin discharger				
5. Dosing screw surge bin				
6. Screw conveyor (with drive motor)				
7. Over/ Under pressure valve				
8. Dosing screw (with drive motor)				
ENGINEERING & MANAGEMENT				
9. Labour (Installation and commissioning)				
10. Documentation (including structural certification)				
11. Engineering and Drawings				
12. Project Management				
LOGISTICS				
13. Packing & Transportation				
14. Deliver				