

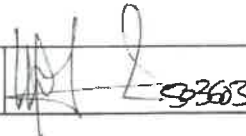
Tender no:

SCOPE OF WORK FOR THE SUPPLY OF A Plant Drying & Interpass Absorption Towers Intalox Ceramic Saddles

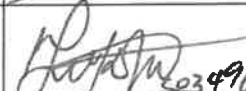
Tender no:

Revision¹: **1.0 see** legend at bottom of page

Revised date: 17/07/2025

NAME	TITLE	Empl. no	SIGNATURE	DATE
COMPILED - RECOMMENDATION				
Vujaha Mabunda	Production Engineer	503603		23-07-2025

APPROVAL TO PROCEED

Precious Buthelezi	Snr Production Manager	22171		23/07/2025
Charles Mavuso	Snr Manager SHREQ	504688		23/07/2025
Ntsikelelo Lukope	Snr Manager Technical and CI	503496		23/07/2025
Sifiso Majola	Snr Maintenance Manager	15480		23/07/2025
Sam Mbuyazi	GM Acid Division	500441		23/07/2025

INDEX

INDEX	2
SCOPE OF WORKS	3
1.0 Background, Present Situation and Proposed Solution.....	3
1.1 Background.....	3
1.2 Present Situation	3
1.3 Proposed Solution: Reason for this Tender.....	3
1.4 Technical Details	4
1.5 Hoisting / Offloading Equipment	4
1.6 Pre-requisites & Inputs	4
1.8 Project Requirements	5
1.9 Plant Data	6
1.10 Drawings and/or Equipment Manuals.....	6
1.11 Supplied Services	6
1.11.1 Foskor Supplied Services	6
1.11.2 Successful Tenderer (Contractor/Consultant) Responsibilities	7
1.12 Scope of Work	7
1.12.1 Intalox Ceramic Saddles Specification.....	8
1.12.2 Intalox Ceramic Saddles Quantities	9
1.12.3 Extent of the Work	9
1.12.4 Supply of Intalox ceramic saddles.....	9
1.12.5 Site Conditions	11
1.12.6 Location of the Works	11
1.12.7 Sample of Materials	11
1.12.8 Invoicing and Payment.....	11
1.12.9 Progress of Works.....	11
1.12.10 Cancellation of the Contract by Foskor	12
1.13 Company Profile	12
1.14 Quality Management.....	13
1.14.1 Quality Assurances:	13
1.15 OHS Act & SHREQ Requirements	13
1.16 Tender Adjudication.....	16
1.17 Tender Acceptance.....	16
1.18 Site Visit	16
1.19 Bill of Quantities (BOQ)	17
1.20 Tender Evaluation (TEV)	18

SCOPE OF WORKS

1.0 Background, Present Situation and Proposed Solution

1.1 Background

Sulphuric Acid production at Foskor Richards Bay consists of three plants. Two of these three plants (A and B plant with a design capacity of 1800 MTPD of H_2SO_4) are part of the original design and are jointly referred to as the old section, which was commissioned in 1976, they are identical. The third plant (C plant with a design capacity of 2650 MTPD of H_2SO_4) is referred to as the new section of the plant, which was commissioned in 2002. The plants technology is a Monsanto Enviro-Chem Systems design.

Plant B & C underwent compliance shutdowns in 2024 to comply to the new SO_2 & SO_3 emission limits which were effective from April 2025 in Foskor Richards Bay site, the business has taken a decision to implement a compliance shutdown on A plant and the drying and interpass absorption towers intalox ceramic saddles packing are one of the acid towers internals identified for replacement for environment emissions compliance.

1.2 Present Situation

A Plant is offline from March 2025 due to the new atmospheric emission limits which came into effect in April 2025. The plant is undergoing a mothballing process, and the business has taken a decision to bring the plant into production before the end of the current financial year, hence a need to implement an atmospheric emissions compliance shutdown.

The acid absorption towers internals were identified for replacement during the atmospheric emission limits reduction study undertaken. The drying and interpass absorption towers acid distribution troughs and spouts were frequently experiencing blockages from ceramic chips broken from the old packing. Blockages of the acid distribution system causes channeling within the acid towers; the resulting reduction in the operating towers efficiency causes corrosion on downstream equipment and stoichiometric imbalance on the converter last pass. These factors negatively affect operation stability, resulting in high production cost and external environmental complaints due to gas leaks and / or visible stack plume.

The above-mentioned factors necessitate the procurement of the intalox ceramic saddles for the drying and interpass absorption towers before the plant can put on production for a sustainable & reliable operation within the stipulated AEL emissions limits.

1.3 Proposed Solution: Reason for this Tender

To address the above, Foskor calls on a reputable supplier to submit a bid to:

Supply intalox ceramic saddles to the Foskor, Richards Bay site for the Sulphuric acid A plant drying and interpass absorption towers.

1.4 Technical Details

Below is the Drying and Interpass absorption tower operational data:

Drying Absorption Tower:

Acid inlet Temp	70 °C
Acid outlet Temp	73.3 °C
Acid Strength	98.0 - 98.55 % (w/w)
Air Inlet Pressure	1 bar a
Air Outlet Pressure	0.97 bar a

Interpass Absorption Tower:

Acid inlet Temp	78- 82 °C
Acid outlet Temp	119 – 125 °C
Acid Strength	98.3 % (w/w) - Oleum
Air Inlet Pressure	1.25 bar a
Air Outlet Pressure	1.20 bar a

1.5 Hoisting / Offloading Equipment

Foskor Richards Bay takes on the responsibility of providing a crane and/or forklift for the offloading of the ceramic saddles for the agreed upon delivery time between the supplier and customer viz. Foskor Richards Bay.

1.6 Pre-requisites & Inputs

FOSKOR Richards Bay will supply the successful Tenderer with the following:

- Equipment specified above in 1.5.
- Availability of duly authorised personnel to represent FOSKOR for this project
- FOSKOR technical specifications.

1.7 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
Act 85 of 1993	Occupational Health and Safety (OHS Act)	Latest
ISO 9000	Quality Systems Series	Latest
ASME IX	Qualifications Standards for Welding Specifications	Latest
FG 001	General Requirements for Projects	Latest
FQ 001	General Engineering Quality Requirements	Latest

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

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.

1.8 Project Requirements

The main requirement of the project is the Supply Intalox ceramic saddles with the following additional requirements:

- Guarantee that the physical integrity of the ceramic saddles will be maintained.
- Guarantee the process performance of the ceramic saddles.
- Supply of document containing ceramic saddles physical properties.
- Safe installing and removing procedure for ceramic saddles.
- It must be noted that the acid towers operating conditions could fluctuate, thus exposing the ceramic saddles to a higher than specified temperature, hence material selection of the intalox ceramic saddles is critical and must withstand variations of this nature.
- The specified intalox ceramic saddles must also be able to handle variations in sulphuric acid strength as is considered normal when operating plants of this nature.

1.9 Plant Data

To deliver at

FOSKOR(Pty) LTD – RICHARDS BAY DIVISION,
21 JOHN ROSS PARKWAY,
RICHARDS BAY,
3900
SOUTH AFRICA

1.10 Drawings and/or Equipment Manuals

The drawing and data pack will become property of Foskor on execution of contract.

On completion of the project, the contractor must certify all documentation and standard drawing for correctness and conformance to the OHS Act.

1.11 Supplied Services

1.11.1 Foskor Supplied Services

Foskor shall be responsible for		Applicable:
1	Supply a copy of the relevant Foskor Procedure Specification(s).	YES
2	Supply the relevant Foskor Technical Specifications	YES
3	Supply a copy of reference drawings if required.	Refer 1.10
4	Supply equipment (if applicable)	Refer 1.5
5	Provide access to ablutions facilities. (Not change rooms) - Successful Tenderer (Contractor/Consultant)'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 be of the opinion that it be necessary. Cost associated with such cannot be claimed from Foskor.	NO
6	Assist in issuing work clearances and HIRA certificates.	N/A

7	Make available duly authorized personnel to represent Foskor on this project	YES
8	Waste/ Scrap bins for disposal of waste (general and contaminated) where and when required. (Only if not part of the scope of works) Successful Tenderer (Contractor/Consultant) to indicate the type (no and size of bins) and frequency of waste disposal it would require.	N/A

1.11.2 Successful Tenderer (Contractor/Consultant) Responsibilities

The successful Tenderer (Contractor/Consultant) shall be responsible for (inter alia):		Applicable:
1	Supply suitable qualified and competent labor inter alia: general, specialized, artisans and supervision to fulfill the scope of work.	NO
2	Supply of tools and any specialized equipment.	NO
3	On approval of request for Site Establishment, to safely complete and set up site. On completion of works, site to be re-instated to original or accepted in writing as-is.	NO
4	Supply suitable (approved) personal protective equipment (PPE).	NO

1.12 Scope of Work

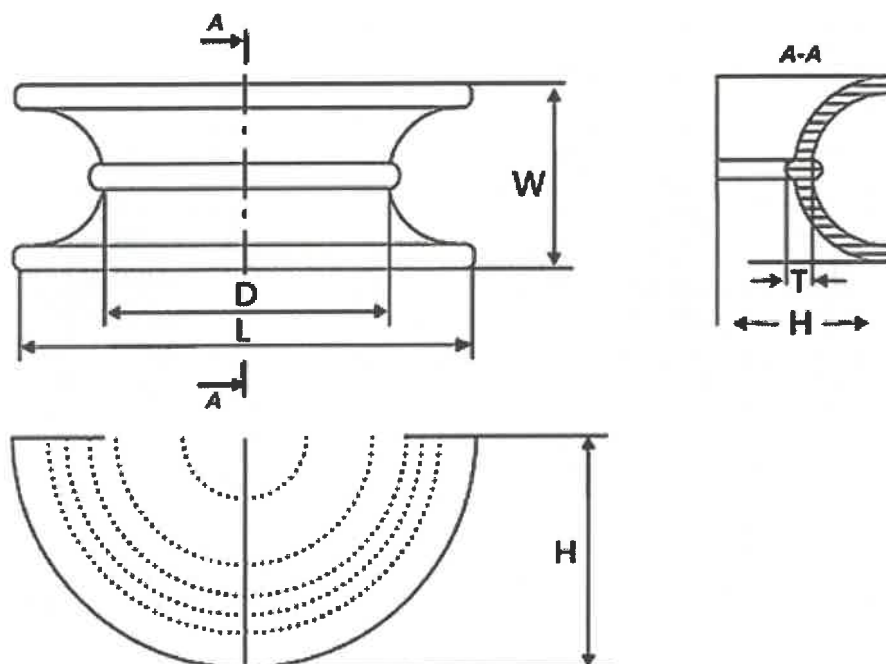
The Scope of Work ("Works") calls for the supply of **Intalox ceramic saddles** for the A plant Drying and Interpass Absorption towers.

Scope of supply: Intalox ceramic saddles

NB. The specifications shown below are those of the acid towers design ceramic packing OEM design. Any improvements in terms of efficiency and construction are welcome must be clearly detailed in the quotation inclusive of the benefits.

1.12.1 Intalox Ceramic Saddles Specification

Intalox Ceramic Saddles Dimensions Specification



Normal Size (Inches)	Alias (DN)	Diameter of Deck (D)	Outside Diameter (L)	Height(H)	Wall Thickness(T)	Width(W)
1 1/2"	38 mm	38±2.0	60±3.0	35±2	7±1	30±4
2"	50 mm	50±2.0	80±1.5	45±1.75	7±0.35	45±1.75
3"	76 mm	76±6.0	145±5.0	67±5.0	9±1.5	70±3.5

*NB Above provided Intalox Ceramic Saddles dimensions specification are in mm.

PHYSICAL PROPERTIES Specification	
Acid resistance	> 99.6%
Alkali resistance	> 85%
Water absorption	< 0.3%
Porosity	< 1%
Specific gravity	2.3-2.4g/cm ³
Max Operating Temp	> 1100°C

Physical State

Solid Ceramic

1.12.2 Intalox Ceramic Saddles Quantities

The required intalox ceramic saddles quantities are as follow:

1 ½ ' (38 mm) = 7 m³

2" (50 mm) = 24 m³

3" (76 mm) = 270 m³

The project will be undertaken in terms of the latest revisions and amendments of all relevant legislation, standards, and Codes of Practices. The contractor will complete the Works in accordance with all statutory obligations, municipal regulations, and all other relevant requirements. The Contractor is specifically reminded of the requirements in terms of the Occupation Health and Safety Act, Act 85 of 1993 and latest amendments in terms of this project.

1.12.3 Extent of the Work

The Tenderer is to supply a tender with pricing for the supply of the intalox ceramic saddles as specified.

Please note that Foskor may accept or reject any part of a Tender without being obliged to accept such a tender in its entirety.

The Tenderer would determine the work methodology and approach; however, it is imperative that the outcome of the work meets the following requirements:

[Note: All references to **Contract** mean the same as **Tender**, and to **Contract Works** mean the same **Works** or **Scope of Works**.]

1.12.4 Supply of Intalox ceramic saddles

The Tenderer shall, in accordance with the requirements of the Scope of Work, provide the Intalox ceramic saddles on or before the due date determined in accordance with this Tender, and/or stated in a written order/instruction issued by Foskor.

(a) PACKAGING, MARKING AND DELIVERY

1. Unless otherwise stated in the Tender, all containers (including packing cases, boxes, tins drums and wrappings) supplied by the Tenderer shall be considered as non-returnable, and their cost having been included in the price of the Equipment.
2. The Tenderer shall:
 - a) clearly mark the outside of each consignment or package with the Tenderer's name and full details of the destination in accordance with Foskor's order and include a packing note stating the contents thereof.
 - b) on dispatch of each consignment, send to Foskor at the address for delivery of the intalox ceramic saddles, and advice notes specifying the

means of transport, weight, number, or volume as appropriate and the point and date of dispatch.

- c) Send to Foskor a detailed priced invoice as soon as is reasonably practical after dispatch of the intalox ceramic saddles, and
 - d) State on all communications the relevant order number and code number (if any).
3. Intalox ceramic saddles shall be delivered on the days, between the times and at the address specified by Foskor.
 4. Should the Tenderer fail to supply any of the intalox ceramic saddles on the date or dates or within the period or periods specified thereof, or should he fail to replace any rejected intalox ceramic saddles as required by the Tender, the Tenderer shall be liable to make good to Foskor all loss and damage occasioned by such failure, including any reasonable price (whether greater than the appropriate Tender price or not) paid by Foskor in purchasing the Mist Eliminators on which default has been made, from a source other than the Tenderer. In such an event, Foskor shall be at liberty to retain the amount of any such loss or damage from any money due by Foskor to the Tenderer but without prejudice to other methods of recovery open to Foskor.

(b) **QUALITY OF Intalox ceramic saddles**

1. All intalox ceramic saddles supplied shall comply with the requirements of the Scope of Work.
2. All intalox ceramic saddles covered by this Tender shall be always the subject of Foskor's inspection and test before, during or after supply.
3. If the Tenderer fails to supply the intalox ceramic saddles or services in accordance with the provisions of the Tender, Foskor may reject any part of the intalox ceramic saddles by giving written notice to the Tenderer specifying the reason for rejection and whether replacement intalox ceramic saddles are required and within what time.
4. All rejects shall be held at the Tenderer's risk and expense including all transportation and handling costs until returned to or collected by the Tenderer. All rejects shall be replaced or rectified and made good at the Tenderer's expense within the specified replacement period to the full satisfaction of the inspectors and in conformity with the standards, specification, or samples specified in this Tender.
5. In the event of the tenderer failing to remove such rejected Equipment within 5 days of notification of the rejection, Foskor shall be at liberty to return them at the Tenderer's risk, the cost of carriage being recoverable from the Tenderer. If the Tenderer considers him/herself aggrieved, he may, within 5 days of the receipt of notification of rejection give the Foskor notice of objection, whereupon the Equipment shall not be removed until Foskor so directs.

(c) **WARRANTY**

Without prejudice against any other rights of Foskor under these conditions, the Tenderer warrants that:

- i) all intalox ceramic saddles delivered will be free from defects.
- ii) This warranty shall survive any inspection, delivery, acceptance, or payment by Foskor

1.12.5 Site Conditions

The site is located on the Foskor Richards Bay Plant; approximately **500** meters from the main entrance and access for vehicles is available.

1.12.6 Location of the Works

The site is situated within the premises of Foskor at Richards Bay. No site visit is required, but it can be arranged if necessary.

1.12.7 Sample of Materials

Intalox ceramic saddles are required for submission, samples are to be couriered to Foskor Richards site by no later than 14 days after closure of this tender.

1.12.8 Invoicing and Payment

Payment will be made by Foskor, after approval by the Foskor Project Representative (i.e., Engineer, Area Manager) of the submitted Payment Certificate to the Contractor within **30** (thirty) days from the date of receipt of the Contractors approved invoice.

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

The invoice submitted is to be in a format acceptable to the Foskor Project Representative and needs to contain the following minimum information:

- Company details, registration no and VAT registration no
- Purchase Order no
- Details of work done to date
- Detail of claims to date (Excluding the current claim)
- Value of the current claim and work done
- VAT charged

1.12.9 Progress of Works

Should Foskor or its appointed Agent 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, he shall so notify the Contractor in writing, with specific reference to this Clause, and the Contractor shall thereupon, subject to the approval of Foskor, which approval shall not be unreasonably withheld, 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.

1.12.10 Cancellation of the Contract by Foskor

If:

- (a) (i) The estate of the Contractor shall be sequestered (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 not assign the Contract without the consent in writing of Foskor 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 Project Representative shall certify in writing to Foskor, and to the Contractor, with specific reference to this Clause, that in his opinion the Contractor
 - (i) has abandoned or repudiated the Contract, or
 - (ii) has, without reasonable excuse, failed to commence the Works in terms of the time allowed for it 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) has failed to remove materials from the Site or to pull down and replace work, which materials or work have been condemned and rejected by the Foskor Project Representative, or
 - (vi) is not executing the Works in accordance with the Contract, or
 - (vii) has, without the approval of the Foskor Project Representative, subcontracted any part of the Contract or has failed to expel any subcontractor after having been instructed to do so, or
 - (viii) has failed to provide the Surety ship, Guarantees or Proof of Insurance within the time stipulated and for 14 days after receiving a written notice from the Foskor Project Representative, referring specifically to the default concerned and to this Clause, failed to remedy the default,

Foskor may, by written notice to the Contractor, cancel the Contract.

1.13 Company Profile

Tenderers are to submit an extensive portfolio indicating their experience and expertise with reference to supplying of intalox ceramic saddles.

1.14 Quality Management

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

1.14.1 Quality Assurances:

- i. It is a requirement of the contract that the successful Tenderer (Contractor/Consultant) maintains an effective documented system for the control of product quality.
- ii. Proof of compliance (performed quality document) with a recognized quality assurance standard, such as ISO 9000, should be submitted with the Tenderer's (Contractor/Consultant) tender.
- iii. The Tenderer's (Contractor/Consultant) Quality Assurance Department Manager shall be responsible to a senior executive only and not be under the control of the persons responsible for production.
- iv. The Tenderer's (Contractor/Consultant) Quality Assurance Manager is regarded as the principal link between the Tenderer (Contractor/Consultant) and Foskor in all matters affecting quality.
- v. The successful Tenderer's (Contractor/Consultant) Quality Manager shall have access to the successful Tenderer's (Contractor/Consultant) offer document and to all other associated specifications, drawings and documents necessary for the satisfactory execution of the project.

1.15 OHS Act & SHREQ Requirements

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

SHREQ Requirements

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

- a. The Contractor shall prepare a safety plan for the work to be done.
- b. The contractor must appoint a qualified Safety Officer with at least a Diploma in

Safety Management or SAMTRAC, either on a full time or part-time basis to conduct the following responsibilities:

- Conduct and submit monthly audits report

-
- Conduct and submit monthly inspections report
 - Compile and submit safety monthly report to Safety Department.
 - Perform safety talks and awareness training and submit evidence to Foskor.
 - Visibility on Site.
 - Conduct inspections on PPE and provide evidence to Foskor.
 - Continuously update Safety file.
- c. The Contractor to submit a comprehensive task-based risk assessment that has acknowledged the Foskor baseline risk assessment and method statement.
 - d. The Contractor to appoint a full-time Supervisor to manage and supervise all the activities of his/her employer.
 - e. All new work activities must have scope of work and communicated to Safety Department before starting with the work with exception of emergency breakdowns.
 - f. All maintenance emergency works and consultants are exempted from the above-mentioned safety requirements
 - g. The Contractor shall ensure all his/her personnel have attended the Safety Induction, by Foskor (Pty) Ltd before they enter the site.
 - h. The Contractor on entering site, must wear Foskor minimum required PPE at all times namely safety glasses, acid resistant overalls, safety harnesses (on heights), safety boots or steel cap gumboots, ear protection and carry gas masks **(Half mask double filter – screw type with filter type A1B1E1K1 – North Safety Product or similar approved product)** and goggles **(Ovex ultra vision – W1663459B – DIN CE 0196) preferably in a pouch**. Should a Contractor be found on site without the above-mentioned safety clothing, he/she 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 a dusty environment.
 - i. **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.**
 - j. 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.
 - k. 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 Foskor (Pty) Ltd at the start of each day shift and each night shift.

- l. The Contractor must take safety precautions when working on site.
- m. The Contractor must remove all their equipment within 48 hours after project completion/closure.
- n. A complete safety file to be submitted to Foskor (Pty) Ltd Safety Department before any work commences.
- o. The Contractor's vehicle when entering the Plant must always have rotating orange lights on.
- p. The Contractor and their employees must undergo a full medical at either Foskor (Pty) Ltd.'s Clinic or Caradoc Richards Bay or a Foskor (Pty) Ltd approved medical facility. 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 Nkosazana Nxumalo at Foskor (Pty) Ltd Clinic on 035 902 3267.
- q. A once-off fee is also required for access cards from Foskor Security. Please contact Foskor (Pty) Ltd Security Reception at 035 902 3267 for information.
- r. No access to elevated platforms, roof and scaffolding will be allowed during rainy days.

NB: A Contractor that has been awarded work shall register with the HSEC Online, which is a Contractor management system for Foskor Acid Division where all Contractors are required to submit their safety files.

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 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 legislation requirements which includes OHS Act (Act 85 of 1993), NEMA (National Environmental Management Act) and other relevant legislation.
- c) The Contractor shall fully comply with Covid-19 compliance as part of Section 37(2) of the Act.
- d) The contractor shall fully comply with Foskor's COP 6 (Contractor Management)

IMPORTANT NOTE

The above is a summary of some of the matters as defined in the Act. The successful Tenderer (Contractor) is required and advised in his/her 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 a valid reason if non-conformance to the Act and the Regulations are committed

1.16 Tender Adjudication

Proposals will be adjudicated on a mix of the following criteria (in no order):

- Technical support
- Track record
- Foskor's HDSA Policy. Policy available on request.
- Price

1.17 Tender Acceptance

Note that Foskor is not obligated to accept the lowest tenderer in the tender process.

1.18 Site Visit

No site visit required, but it can be arranged if necessary.

Foskor Contacts:

Technical Enquiries

Production Engineer: Vujaha Mabunda 035 902 3096 or VujahaM@foskor.co.za or Snr Manager Precious Buthelezi (035) 902 3058 or PreciousB@foskor.co.za

Commercial Enquiries

Procurement - Buyer: Lisu Khumalo (035) 902 3278 or Lisuk@foskor.co.za

The tender must be in a sealed envelope, with the tender number and closing date clearly marked on the outside. Tender must be deposited in the tender box, situated at Foskor Richards Bay's Main reception, before 12h00 of the closing date.

1.19 Bill of Quantities (BOQ)

BOQ

ELEMENT	UNIT	QUANTITY	PRICE PER UNIT	TOTAL COST
1. Intalox Ceramic Saddle				
38 mm Ceramic Saddle		7 m ³		
50 mm Ceramic Saddle		24 m ³		
76 mm Ceramic Saddle		270 m ³		
2. Transport				
38 mm Ceramic Saddle		7 m ³		
50 mm Ceramic Saddle		24 m ³		
76 mm Ceramic Saddle		270 m ³		
3. Other				

*Provide a breakdown of each element

END OF SCOPE

1.20 Tender Evaluation (TEV)

No.	Mandatory Requirement			
1	Submission of non-returnable Intalox ceramic saddles samples			
TECHNICAL REQUIREMENTS				
Evaluation Criteria (Technical)				
Sulphuric Acid A Plant Drying & Interpass Absorption Towers				
No.	Technical Criteria Description	% Contribution	Proof/Documents to be submitted	Notes
1	Competence - Supplier experience & product reliability			
	Supplier previous experience in supplying similar intalox ceramic saddles and operating lifespan of the Intalox ceramic saddles Scoring: Supplied Intalox ceramic saddles before with the required specification with reliable operation lifespan of more than 10 years : 30 % Supplied Intalox ceramic saddles before with the required specification with reliable operation lifespan of 10 years or less: 15 % Supplied Intalox ceramic saddles before with no proven reliability of the product: 7.5% No proven record of supplying Intalox ceramic saddles before: 0%	30%	Reference of organization(s) supplied if not Foskor (Pty) Ltd and period of ceramic saddles supplied in operation	
2	Delivery lead time			
	Supplier's capability to manufacture & supply equipment to Foskor site within the scheduled shutdown period for installation Scoring: Manufacture and deliver onsite within 12 weeks period (Inclusive of Manufacturing plan) :25 % Manufacture and deliver onsite within 14 weeks period (Inclusive of Manufacturing plan) :15 % Manufacture and deliver onsite within 16 weeks period (Inclusive of Manufacturing plan) :10 % Unable to Manufacture and deliver onsite within 16 weeks period (inclusive of manufacturing period): 0%	25%	Detailed production schedule from receipt of order including shipment period to Foskor Richards site in South Africa.	
3	Technical Data			
	Supplier's product capability to meet the expected performance at the specified operating conditions Scoring: Physical properties specification, dimension sizes, acid resistance and fall test all passed: 45% Physical properties specification, dimension sizes, acid resistance and fall test not all passed: 0%	45%	Provide ceramic saddles physical properties data sheet, submit ceramic saddles samples for dimensions verification and mechanical strength test by fall test method.	
	Total Points	100%		
	Minimum Threshold	75%		