

PROCUREMENT OF TWO NEW DRY & INTERPASS ACID COOLER FOR SULPHURIC ACID A&B PLANT

Tender no: FTP /24/MN

Cost Code:

Revision¹: 1.0 see legend at bottom of page

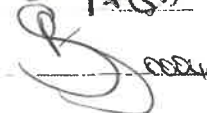
Revised date: 07/03/2024

NAME	TITLE	Empl. no	SIGNATURE	DATE
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COMPILED – RECOMMENDATION

[REDACTED]	Maintenance Technician	504472		07/03/2024
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APPROVAL TO PROCEED

[REDACTED]	Maintenance Engineer	503497		7/3/2024
[REDACTED]	Snr Manager Maintenance	15480		07/03/24
[REDACTED]	GM, Acid Division	500441		07/03/24

Comments:

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 the procurement of two new Dry/Interpass acid cooler for sulphuric acid A&B plant.

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	Mphumeleli Ngqulunga
Telephone	035 902 3115
Fax	035 797 3941
Cell no	
Email	PhumeN@foskor.co.za

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		The Manager Procurement FOSKOR LIMITED 21 John Ross Parkway Richards Bay
Tender No.	FTP /24/MN	
Contract Title: Procurement of two new Dry & Interpass Acid Cooler for Sulphuric A&B Plant		

Closing date & time:

A.2.2 Tenders shall be placed in the **Tender Box at Foskop 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 in a position to hand deliver tender documents to the above-mentioned location, Tenderers may use an approved document courier for the purpose of delivering the tender document to Foskop (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.
- Foskop 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 **Foskop, Richards Bay** site in order for the Tenderer to fully acquaint himself with the 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 (Foskop Acid Proof),
Hard Hat

Yes

Yes

Safety Shoes
Safety Glasses
Hearing protection
Gloves

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 starts 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 Labour 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 particular 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;
- c) Any effect on the execution of the scope of supply;
- d) Any effect on Foskor'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 Foskor (Pty) Ltd reserves the right to adjust arithmetical or obvious errors in the Tender. Such adjustments made by Foskor (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 Foskor (Pty) Ltd.
- A.7.3 Foskor (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 Foskor (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 Foskor (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, Foskor 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 Foskor 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	
1.0	SUB TOTALS:					
1.00	Bill No. 1 –Procurement of two new Dry& Interpass Acid Cooler for Sulphuric Acid A&B Plant					A1
						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 Foskor 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 0% RETENTION and 12 MONTHS DEFECTS-LIABILITY RETENTION PERIOD.

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 Foskor and Yourself.

Amount In Words:

Signed aton.....

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

.....
Company Stamp

B.2 Initial Project Programme 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: Immediate)

**Within 7 days from receipt of
Purchase Order**

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

16 Weeks

TO BE SUBMITTED WITH THIS TENDER

The Tenderer shall submit with this Tender:

1. Initial programme (Bar Chart/Gantt Chart)
2. Milestones
3. Method Statement
4. Reference Letter (Similar Contract Undertaken)
5. ISO 9001 Accreditation
6. Quality Control Plan
7. ISO 45001 Accreditations
8. ISO 14001 Accreditations

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 Foskor (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 Foskor (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 Programme 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 programme 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:

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 similar to the one described in this document (or attach references)

[illegible]

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 made ourselves 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 and Present Situation

Sulphuric A&B consists of acid coolers which are used for the purpose of cooling the temperature of acid solution. In the acid coolers water coming from the cooling tower through the inlet line should be 35 degrees to cool down temperature of the acid to 78-82 degrees and give out a strength of 98,5% of Sulphuric Acid.

C.1.2 Present Situation

Currently the Dry & Interpass Acid coolers are badly damaged and have more than 45% plugged tubes, other tubes are restricted or have defects as per the eddy current tests conducted.

This has made acid coolers become inefficient. In this current condition the risk of tube leaks is high thus affecting the production of Sulphuric Acid.

C.1.3 Proposed Solution: Reason for this Tender

Currently the Dry Interpass Acid cooler is badly damaged, and it is recommended to replace the cooler. To address the above situation, the contract needs to be appointed to procure two new Dry Interpass Acid Coolers.

The appointment of a suitable, qualified and experience contractor will inter alia include the Design and Manufacture to be fit for intended purpose and will include the following:

- Design
- Procurement, Supply of materials and Fabrication
- Handover

C.1.4 Nature of Work

The nature of this work is **Procurement of two new Dry & Interpass Acid Cooler units** and is envisaged to include (but not limited to) the following disciplines:

- Mechanical & Thermal Design Calculations
- Making of Fabrication drawings to be approved by Pr. Engineer
- Procurement, supply of all materials required.
- Construction
- AIA and Quality Checks
- Delivery to Foskor site

It will be the responsibility of Contractor to do what is necessary to complete the scope of works as per applicable specifications, adherence to legislation, meet quality requirements, financial and time constraints so that deliverable is fit for purpose.

C.2. Legislation, Standards and Codes of Practice

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

Number	Description	Revision
Act 85 of 1993	Occupational Health and Safety (OHS Act)	Latest

ASME VIII	Rules of construction Work	Latest
ASME V	NDT Specifications	Latest
ASME IX	Qualification of standards Weldings Specification	Latest
TEMA C	Construction of Heat Exchangers	Latest
AWS D1.1	Structural Welding Code steel	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	
EC1	Installation, Testing and Commissioning of Electrical Equipment	Latest	
FC005	General Earth Works to Plant and Building	Latest	
FD001	Design Criteria for Structures	Latest	
FG001	General Requirements for Projects	Latest	Yes
FL001	Design & Fabrication Criteria for Ladders & Walkways	Latest	
FM001	General Mechanical Specification	Latest	Yes
FM003	Welding of Fabricated Equipment	Latest	Yes

FM002	Rubber Lining of Vessels and Piping	Latest	
FM003	Welding of Fabricate Equipment	Latest	Yes
FM432	Insulation of Vessels and Piping	Latest	
FQ001	General Engineering Quality Requirements	Latest	Yes
FQ002	Non-Destructive Testing	Latest	Yes
FS001	Specification for the Fabrication & Erection of Structural Steel Work	Latest	
FS002	Specification of Roof and Side Cladding	Latest	
FV001	Requirements Vessels, Tanks and Heat Exchangers	Latest	Yes
GM5	Pipe Standards Including Auxiliary Equipment	Latest	
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	
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	
MC009	General Plant Protection High Corrosive Areas	Latest	Yes
MC010	Painting Tank Grillage	Latest	
SS-000000-C-006	General specification for concrete construction	Latest	Yes
SS-000000-C-007	Concrete specification	Latest	
SS-000000-C-012	Grouting	Latest	
SS-000000-Q-001	General quality requirements	Latest	Yes
SS-000000-S-001	Fabrication and erection of structural steelwork	Latest	
DD-000000-C-001	Civil design criteria	Latest	
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 purpose of this Scope of Works is for the procurement of two new Dry & Interpass Acid Cooler and requires the supply of all (including but not limited to):

- Technical Data sheet
- Test Certificate
- Inspection Certificate
- Non-Destructive Testing Report
- AIA Report
- CoC-Certificate of Conformity
- Delivery Schedule
- Commissioning Certificate
- Labour;
- Tools; (Site Measurements)
- Transport;

The Tenderer will be responsible for the manufactured integrity and detailed design of his supplied equipment/structure. Data Pack to be fully inclusive of all checks and certificates required. (Refer C.11.1)

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.

All detailed designs and specifications are to be approved prior to final acceptance by Foskor (Pty) Ltd Engineer.

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:

Drawing No.	Title / Description	Revision
DA-350-298-312 006	Dry/Interpass Acid Cooler-Cathode Housing	Latest
DA-350-298-312 007	Dry/Interpass Acid Cooler-GA and Details	Latest
DA-350-298-312 006	Dry/Interpass Acid Cooler-Tube Sheet & Tube Bundle	Latest

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's responsibility for the entire scope of work:

- To provide relevant detailed 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.

Tenderer's responsibility for the entire scope of work:

Design and Drawings

- Engineering & Design Calculations, Design Review and Drawings
- Take any necessary measurements prior to any Fabrication
- Produce and submit Design Calculations for all fabricated equipment's
- Produce and submit complete drawings for all fabricated equipment's
- Supply Fabrication Drawing with Bill of material
- Obtain Foskor Approval of Design and Drawings

- Ensure AIA involvement during Design and Drawings
- AIA to ascertain and attest that the Design meets the provisions of Health and Safety Standards
- The Acid cooler should be properly designed taking all relevant factors into account to ensure that the Acid Coolers will be safe throughout their intended life.

Manufacturing

- Ensure AIA involvement during the entire project cycle
- Process necessary materials based on Design and Drawings approved by Foskor and Third Party
- Prepare and submit QCP for Fabrication stage
- Prepare and submit Work Methodology for Fabrication Stage.
- The contractor to supply all materials required
- Submit approved drawings, QCP and Design Calculations Documents to third party inspector (AIA) and Foskor Project Leader for final approval before construction starts.
- Manufacture Dry Interpass Cooler with Cover plates
- During fabrication contractor should ensure that competent during execution of provision set out at the Design stage by applying appropriate techniques and relevant procedures
- The scope of work includes the Thermal and Mechanical design calculations, General Arrangement drawings, Manufacture and supply of Acid cooler for Sulphuric A&B Plant, the whole unit to be manufacture according to the drawings approved for construction.
- AIA to carry out Material Inspection and identification.
- Appoint and ensure AIA approval during fabrication
- All legally required AIA, NDT, WPS, PQR and QCP etc. To be carried out and issued on completion of fabrication.
- Perform own NDT (Supply own NDT company).
- The contractor must comply with all the requirements of this document.
- The project to be undertaken in terms of the latest revisions and amendments of all relevant legislation, standards and code of practices
- The contractor will complete the work in accordance with all statutory obligations, municipal regulations in terms of the Occupational Health and Safety Act, Act 85 of 1993 and the latest amendments in terms of this project.
- Engineering design, fabrication and inspection shall comply with the following Codes:
 - ✓ ASME VIII DIV.1 Latest Edition for Pressure Vessels and Heat Exchangers
 - ✓ ASME IX Latest Edition for Welding procedures/qualifications.
 - ✓ ASME V Latest Edition for Inspection requirements
 - ✓ TEMA R Latest Edition for Shell and Tube Heat Exchanger
- The Contractor to submit Data Book containing Quality Control Plan, Welding Procedures and Non-Destructive Testing and Reports, Inspection report and Certificates, Material Certificates and as built drawings.
- The contractor shall appoint an approved Authorized Inspection Authority (AIA), when required by the laws and codes and obtain the required design approvals.
- All materials for construction shall be supplied by the supplier and must comply with the specifications given.
- The contractor shall be responsible for the transportation of the completed Acid cooler (Dry Interpass Acid Cooler) to Foskor site.
- The contractor shall ensure that the delivery time is stipulated clearly and also the work methodology (bar chart) prior to commencement of work.

- Final handover of the equipment will be done after pressure test at Foskor site, Acid cooler must be delivered with all blanks and fittings required for Pressure test and the contractor must witness Pressure test along Foskor and third-party inspector (AIA) at Foskor.
- The contractor submits 2 sets of hard copies and 1 soft copy of the Manufacturing Data Pack along with delivery.
- The supplier shall be responsible for the Shop Test and Field Test.
- As the minimum the Nameplate shall consist of the following information
 - ✓ Name of Manufacturer
 - ✓ Year of Manufacture
 - ✓ Country of Origin
 - ✓ Manufacturer's serial number
 - ✓ Name, number & date of the Standard/Code of design
 - ✓ Design gauge pressure in Pascal
 - ✓ Site Hydro test gauge Pressure in Pascal
 - ✓ Capacity in cubic meters
 - ✓ Mark of an Approved Inspection Authority (when required).

Delivery

- Supply own Transportation delivery at Foskor site
- Ensure AIA involvement during onsite inspection and Testing Pressure Testing.
- Perform Pre-commissioning testing in the presence of the AIA.
- Produce and submit the Certificate of Conformity (CoC) state the product meets the required standards and specifications

Quality, Technical and Health and Safety Standards

- Safety-Occupational Health and Safety Act 85 of 1993
- Conformity Assessment of Pressure Equipment-SANS 347
- Welding Quality Standards –ISO 3834
- NDE-Minimum Level 2 NDE Qualified Technician to perform and interpret Inspection and Report. NDE Level 3 Qualified Technician to verify and approve Inspection Procedure and Reports
- AIA- registered with SANAS
- Material Grade-as specified by Design Code
- Design Code-ASME VII Div 1

Exclusions

- Rigging, Lifting and Cranage on Foskor Site
- Any Civil Works
- Installation and Commissioning

C.7.1 Tender Deliverables

The following documentation shall be returned by all Tenders together with their offers:

- Work Methodology that clearly indicates all the activities to be carried out.
- Contract delivery programme clearly indicate the earliest delivery time (Gantt Chart or equivalent).
- Project Milestones
- Company Profile (If supplier has not previously supplied similar product to Foskor Richards Bay

- Reference Letter (Similar Contract Undertaken)
- Quality Control Plan (QCP)
- ISO 3834 Accreditation
- ISO 9001 Accreditation
- Details of insurances and guarantees
- Price Lump sum at fixed cost and delivery date

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 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 taken into account 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:

- Electrical and Instrumentation Cables.
- Other unknown services (e.g., spillage drainage system etc.)

7.3.1 Foskop Supplied Services

Foskop (Pty) Ltd shall be responsible for:		Applicable:
1	Supply a copy of the relevant Foskop 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 Any connection and consumption will be monitored by Tenderer and verified by Foskop on defined intervals (usually at the beginning and end of contract)	YES
5	Provide access to potable water Connection and consumption would need to be monitored by Successful Tenderer (Contractor) and verified by Foskop on intervals (usually at the beginning and end of contract) defined by Foskop	YES
6	Provide a suitable area for site establishment for Successful Tenderer (Contractor). - Successful Tenderer to formally in writing motivates, request and define the area and services it deems necessary for site establishment. - Foskop will at its own discretion (if request is approved) allocate a site establishment area, however Foskop 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) - Successful Tenderer (Contractor)'s workers to be fully dressed in required PPE when coming on site. - The successful Tenderer ensures 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 Foskop'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 Foskop at its discretion believe it be necessary. Cost associated with such cannot be claimed from Foskop (Pty) Ltd.	YES
8	Assist in issuing work clearances and HIRA certificates.	YES

7.3.2 Successful Tenderer (Contractor) Responsibilities

The successful Tenderer (Contractor) shall be responsible for (inter alia):		Applicable:
1	Supply of own labour, supervision, equipment, specialized manpower and other staff to fulfill the scope of work.	YES
2	Supply suitable (approved) Personal Protective Equipment (PPE)	YES

The successful Tenderer (Contractor) shall be responsible for (inter alia):		Applicable:
3	To ensure that all work is reviewed by designated Foskop (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 Foskop 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 Foskop (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 Foskop (Pty) Ltd, will be subjected to review and approval by Foskop (Pty) Ltd and shall conform to Foskop 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 Foskop's attention any previously unspecified or obstructing services existing in his area of work 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 of time measured in hours, when the Contractor's normal operational cycle is affected by causes caused 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. Particulars 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 into 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
 - (viii) 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

In order 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 OSHA 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 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 **gas masks (Halfmask double filter – screw type with filter type A1B1E1K1 – North Safety Product or similar approved product) and goggles (Uvex ultravision – 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 Foskor (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 Foskor (Pty) Ltd Safety Department before any work commences.
- i. The Contractor's vehicle when entering the Plant must have rotating orange lights on at all times.
- j. **The Contractor and their employees must undergo a full medical at either Foskor (Pty) Ltd's Clinic or Caredoc Richards Bay or their approved by Foskor (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 Foskor (Pty) Ltd Clinic on 035 902 3287.**
- k. 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.
- l. No access to elevated platforms, roof and scaffolding will be allowed during rainy days.

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 the 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 a 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. Quality of work must be monitored and controlled at a high level at all times.
- 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. Initial programme (Bar Chart/Gantt Chart)
3. Milestones
4. Indicative Cash Flow/Invoicing
5. Record of experience and references
6. Proof of professional registration

SECTION D

D.2 MANDATORY REQUIREMENTS

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

No.1	Mandatory Requirements	Comments
1	Submit Initial Project programme (Bar Chart/Gannt Chart)	Submit document proof
2	Method Statement	Adherence to scope of work
3	Quality Control Plan	Quality Assurance
4	Experience in manufacturing of acid coolers > 5 years	Submit document proof
5	ISO 3834 Accreditation	Submit document proof

Technical Evaluation Criteria for this Tender which excludes Commercial Evaluation:

Evaluation Criteria (Technical, excludes Commercial Evaluation)				
No	Technical Criteria Description	% Contribution	Proof / documents to be submitted	Notes
1	Mandatory-Compliance with Scope of Work Specifications-Weight not to be less than 25%			
a)	Tender returnable documentation submitted for technical evaluation.	25%		

Evaluation Criteria (Technical, excludes Commercial Evaluation)				
No	Technical Criteria Description	% Contribution	Proof / documents to be submitted	Notes
	Scoring: Tender returnable documents not submitted=0; All returnable documents submitted=25%			
b)	Previous experience in manufacturing of acid coolers Scoring: Experience <2 years=5%; 2 years< but ≥10 years = 10%; Experience ≥10 years =20%	20%	Give reference list of projects, with values and contact numbers for verification	
a)	Competent Persons (Pr. Eng) to sign-off all Mech, Electrical, Civil and Structural Designs Scoring: No Comply = 0 %-0, Comply 100 % - 15%	15%	Provide proof of certificates	
3	Company Capacity – <u>Weight not to be less than 25%</u>			
a)	Company Delivery Times - Execute construction according to a pre-approved WBS / Project Schedule/ Milestones/ Bar Chart/Gantt Chart	25%	Are the delivery times/ project programme and duration acceptable?	

Evaluation Criteria (Technical, excludes Commercial Evaluation)				
No	Technical Criteria Description	% Contribution	Proof / documents to be submitted	Notes
	Scoring: Delivery≥16 weeks =0%; Delivery ≤16 weeks = 25%			
b)	Priced Bill of Quantities as per this Scope of Work attached Scoring: Not in line = 0 %; Somehow in line = 50 %; As per the attached BOQ in this SOW = 100 %	15%	Submit as per this SOW	
	Total Technical Score	100.00%		
Note: For the bid to be considered the bidder needs to score 70% and above, and comply to all mandatory requirements				

 FOSKOR FOSKOR LIMITED RICHARDSBAY		Project Name Project Leader Project Client	SULPHURIC ACID PLANT: DESIGN, MANUFACTURE AND SUPPLY OF NEW ACID COOLERS AT SULPHURIC ACID A&B PLANT Siphwe Ntuli Projects	
Item	Description	Unit	Qty	Price
	These Provisional Bill of Quantities have been measured in accordance with the Sixth Edition of the Standard System of Measuring Builder's Work. Where discrepancies arise the relevant party must be informed immediately. Unless the scope of work changes no extra will be entered This document is to be filled in completely and all supporting documentation requested is to be submitted with the form of tender. Failure to adhere to these instructions by the Tenderer may result in a disqualification. Tenderers must refer to the Model Prelimables for Trades before pricing this document. These Bills of Quantities are provisional and are subject to re-measure and should be priced in conjunction with drawing no. if it's applicable.			
1.1	Engineering - (Design Calculations, Design Review, QCP etc)	LS	2	
1.2	Material	LS	2	
1.3	Manufacturing	LS	2	
1.4	Transportation to Foskor site	LS	2	
1.5	Third Party NDE and AIA	LS	2	
Total excluding VAT carried to form of tender				

