

Tender no:

Cost Code:


Revision: 0

Revised date:

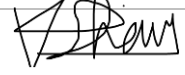
12 November 2024

| NAME | TITLE | Empl. no | SIGNATURE | DATE |
|------|-------|----------|-----------|------|
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COMPILED – RECOMMENDATION

| | | | | |
|----------|------------------|--------|---|------------------|
| L Marule | Project Engineer | 505235 |  | 19 November 2024 |
|----------|------------------|--------|---|------------------|

APPROVAL TO PROCEED

| | | | | |
|----------------------------|---|------------------|--|--|
| Chairperson BSC |  | 19 November 2024 | | |
| Comments: BSC Reference | | | | |

Pre-Qualification Criteria

T / 24 – 40ft Thickener 3 Mechanism Retrofit

| No | Technical Criteria Description | Requirements | Proof / documents to be submitted |
|---|---|-------------------|--|
| 1) | <p>On-site structural/mechanical contractor – CIDB Grading of at least 3SL or 3ME</p> <p>Scoring: Non-Compliant Comply</p> <p>Disqualify Qualify</p> | Mandantory | <p>Provide a copy of a valid (non-expired/-suspended) CIDB Registration Certificate. This should correspond with the nominated contractor indicated in the tender document</p> <p><u>Annexure A</u></p> |
| 2) | <p>Professional Expertise– ECSA registered Pr.Eng appointed for structural steel design and installation on project</p> <p>Scoring: Non-compliant Comply</p> <p>Disqualify Qualify</p> | Mandatory | <p>Provide a copy of a valid and certified ECSA Registration Certificate for Engineer overseeing design, fabrication and installation</p> <p><u>Annexure B</u></p> |
| *Omission to supply MANDATORY documents will lead to disqualification of tender for further consideration | | | |

Please note that it is to the advantage of the Bidder to supply all documents in a neat and organised format, enabling the evaluators to conduct a thorough evaluation on documents submitted to avoid any frustration and disappointments. Please refer to the Annexure labelling as indicated in the pre-qualification and technical evaluation criteria tables.

SCOPE OF WORK

Tender No.: T /24 -

Description: 40ft Thickener 3 Mechanism Retrofit

1 INVITATION TO TENDER

This document describes the scope of work for the Design, Manufacturing and replacement of an 40ft Thickener Mechanism and all related internals to obtain the process requirements further described in the document.

Pre-qualification criteria **MUST** be met to be considered for the technical and commercial evaluation of this tender.

1.1 Scope Background

The core business of the Foskor Phalaborwa operations is the mining and beneficiation of phosphates. As part of the beneficiation process, the phosphate concentrate slurry is transported through pipelines to the filtration section where it is thickened and discharged onto Belt filters for removal of excess filtrates and moisture.

Currently, the 40ft thickener 3 is out of operation due to a failure on the drive and lift mechanism. The slip-ring and worm drive mechanism is also outdated and it is required to introduce new thickener rake drive technology consisting of a gearbox and hydraulic lifting mechanism

A complete thickener drive mechanism replacement is therefore required.



Figure 2: 40ft Thickener 3 Bridge



Figure 1: Thickener 3 drive



Figure 3: Thickener 3 Existing Rake



Figure 4: Thickener 3 Existing rake

1.2 COMPANY BACKGROUND

Foskor is one of the world's largest producers of phosphate rock (concentrate) and phosphoric acid. It is one of the world's few vertically integrated producers of phosphoric acid and is the second largest supplier to India, the world's largest consumer of phosphoric acid.

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

2. SCOPE OF WORK

2.1 **General Scope Considerations:**

The scope of work defines the requirements and deliverables for the:

- Design
- Manufacturing
- Supply
- Replacement/Installation
- Project Management
- Commissioning
- Performance monitoring (Duration: 72hrs after successful completion)

Of the 40ft Thickener 3 High-rate thickener mechanism to treat the Phosphate material to produce a clear overflow and high-density underflow,

Delivery of the thickener Mechanism is for the destination of Foskor Mining Division, Phalaborwa, Limpopo.

2.2 **PROVISIONS BY CONTRACTOR**

The following shall be provided by the contractor at zero charges to the mine

- All labour as per the scope of work to execute the project including management
- Sub-contractor, if any, used to conduct on-site replacement and civils
- Site office with suitable facilities for meetings and eating unless Foskor's responsible supervisor has agreed to share Foskor's green area
- Site Security
- Change rooms provision where necessary
- Entry and exit medicals, first aid box at the place of work
- Training of own employees
- Supply, issue, inspect and manage PPE
- Ensure that safety files are completed and conform to Foskor standards for site access
- All related documents to be supplied to Foskor for safekeeping
- Disposal of all waste as per Foskor waste management to a designated point (All scrap waste shall be radiation tested by Foskor in order to determine waste classification and disposal method)
- Work quality management
- Fuel supply, safe storage and refuelling for LDVs, generators, welders etc.
- Scaffolding care, safe use and management

- All necessary portable electrical tools and must be inspected and tagged by Foskop electrical section
- TMM requirements to do work
- All materials and consumables necessary to complete work
- Generators, electrical extensions, COC site establishment, temporary lighting, electrical panel and distribution, power for tools on site from existing Foskop electrical supply point
- Supply of all relevant certificates as required
- Foskop ID cards
- All Hot work equipment and inspected before use
- Fire fighting equipment as identified in risk assessment
- All other equipment and PPE as identified in risk assessment to complete the work safely
- Process sampling to define material properties for design
- Packaging of products to prevent damages that can be caused before installation
- Transportation to Foskop's site for installation

2.3 PROVISIONS BY FOSKOR

The following shall be provided by the company at zero charge to the contractor

- Site establishment space
- Water and ablution facilities
- Connection to water supply
- Rigger when required
- Electrical connection point (if available, electricity interruption expected)
- Necessary authorizations
- Supply and erection of scaffold when necessary (Although it should be organised by successful bidder)
- Elevated working platform machine
- Mobile crane (Although it should be organized by the successful bidder through the relevant Foskop person)

2.4 SPECIFICATIONS

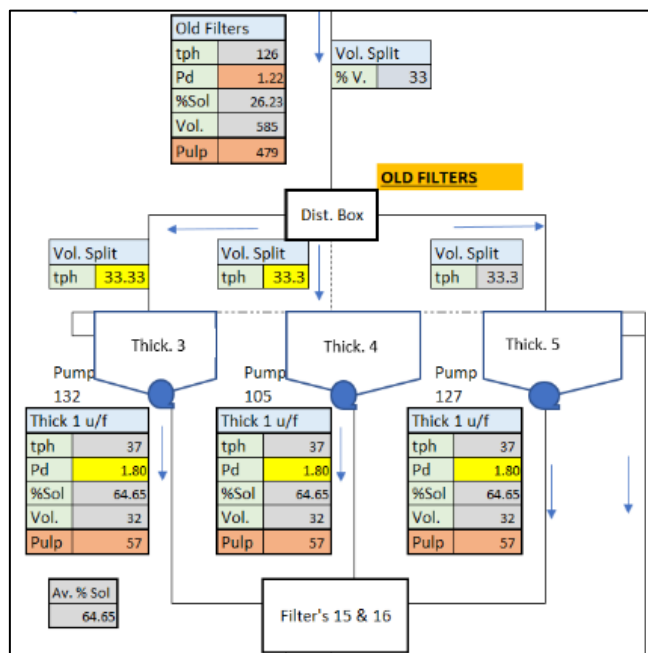
2.4.1 REQUIRED MECHANISM DESCRIPTION

- Description: Hi-rate Heavy Duty 40ft Thickener Mechanism which shall be all-inclusive for the successful operation as a primary thickener (Similar operating Philosophy as Thickener 5)
- The mechanism shall consist of:
 - Existing Thickener bridge to be used
 - Existing Thickener Concrete tank to be used
 - Existing Thickener feed Pipe to be used
 - Torque tube
 - Feed well
 - Thickener Planetary Drive (with means of determining oil level and breather)
 - All machine guarding (inspection and lubrication point if any shall be accessible for maintenance purpose)
 - All hydraulics for mechanism operation (Powerpack)
 - Rake arms and scraping blades (blades shall be bolted for ease of maintenance)

- Stainless steel and powder-coated Electrical Isolation, Electrical panel and Junction Boxes for 525V supply voltage (supplier shall familiarise themselves with the client's requirements to ensure standard are maintained)
- All interconnecting cables and piping of supplied products
- Instruments for rake operation (supplier shall familiarise themselves with the client's requirements to ensure standards are maintained)
- Civils
 - No civil works required
- Termination points
 - The starting termination point of the new installation is defined where the existing bridge and feedpipe is
 - All new termination points (process, mechanical, instrumentation and electrical) must be specified in the tender pricing and proposal submission
- All Foskor's engineering standards and approved brands shall be adhered to

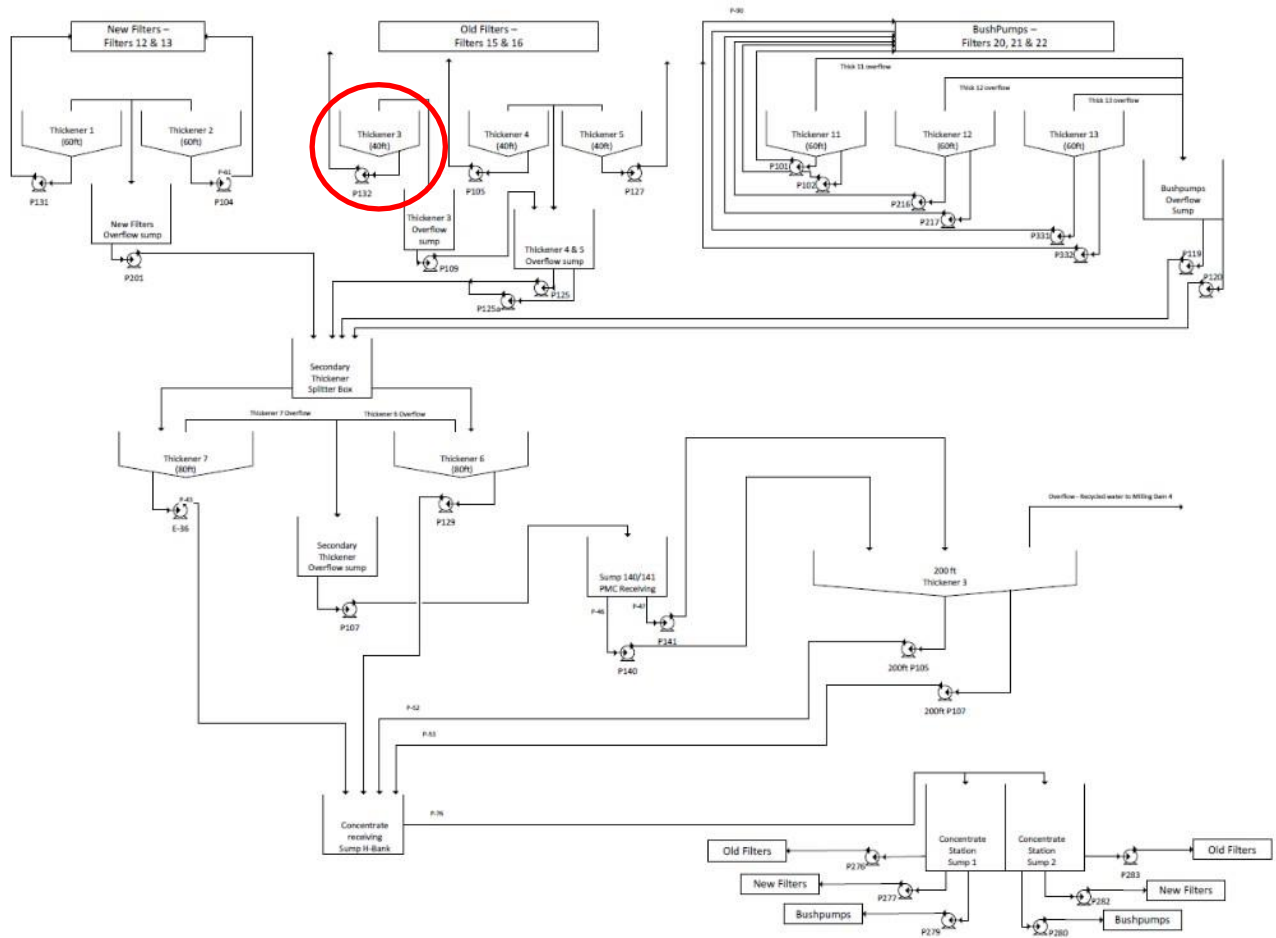
2.4.2 PROCESS SPECIFICATION

Mass Balance Continues Running rates (With a focus on thickener 3)



- The thickener requires no flocculant addition
- The underflow from the primary thickener is pumped to a splitterbox and fed onto the vacuum belt filter
- The overflow is pumped to the secondary thickeners for further clarification to recycle process water and recover solids further

- Fines from the tertiary clarifiers' underflow pumps are also recirculated back into the circuit and redistributed to the primary thickeners as per the diagram below



2.4.3 DRAWINGS

| DRAWING NUMBER | DESCRIPTION | REV |
|----------------|-------------|-----|
| | | |

2.5 TENDER DELIVERABLES

- Submit pricing for the project as specified in the pricing schedule
- Termination of end-point requirements from Foskor, including
 - Process
 - Mechanical
 - Instrumentation and Logic
 - Electrical
- Proposal for design, manufacture, supply, and installation of the new thickener internals mechanism
- All other requirements as specified in the technical evaluation and commercial RFQ
- Sub-contractors used if any, for site work
- State any means of confidentiality or Intellectual Property that may apply

2.6 PROJECT DELIVERABLES

- Approved project plan, indicating holding points, inspection and testing points, delivery, installation etc
- Design, engineering, and manufacturing of thickener mechanism
- Transport of thickener internals and all components
- Complete and Installed thickener internals mechanism
- Commissioning of thickener
- Quality control and assurance for all manufacturing activities and supplies – Quality file to form part of databook and handed over before final signoff of last invoice
- Safety Management as per the Mine Health and safety act 29 of 1996 and regulations
- Databook with drawings specifying operational and maintenance procedures
- Foskor needs to be informed in writing and the contractor/consultant must have confirmation from Foskor that it has been accepted if there are exclusions on the tender Scope and BOQ. Failure to have that confirmation will mean that the full scope is still applicable.

3. INFORMATION REQUIRED

The following additional technical information is to be submitted together with the official quotation:

- Preliminary project plan and lead times
- Requests for a site visit (possibility of a collective site meeting if enough interest arises for a request of site visit)
- Hold/Inspection points
- Quality control plans envisaged for the project (or similar projects done)
- Warranty Conditions
- Terms of payment (negotiable)
- Any other applicable contract conditions (exclusions, battery limits etc.)

4. QUALITY

- The contractor must provide the necessary quality management systems and plans to ensure that the quality of his work complies with the requirements of this scope of work
- The contractor shall during all phases of construction comply with the Foskor approved Quality Assurance Plan
- The contractor shall be responsible for all the resources required for executing the Quality Management System including but not limited to, developing the Quality Assurance Plan & performing the Quality Control measures to ensure that the deliverables comply to the specifications & standards mentioned in the scope of work
- Any change requests / additional work resulting due to inadequate quality management system will be to the account of the contractor
- Foskor might appoint a third party for Quality Control Inspections
- The Contractor will have to provide an approved quality system for all work executed.
- This will include the following but is not limited to:
 - Quality plan
 - Quality compliance – Performance and reports
 - Quantity surveying
 - Quality Assurance
 - Quality Authorization matrix – part of Quality plan
 - Quality control
 - Quality administration. – All documents, checks, measurements, reports, variances, analysis, Corrective actions, etc. needs to be properly filed and available on request at any time. The file will require an index
 - Includes all test work, laboratories, Filing, etc.
 - Survey and survey verifications
 - Construction versus design - Any Deviations from the approved “Construction Drawings”
 - Quality communication – What needs to be reported to whom and at what frequency
- Foskor envisage a complete quality System driven by the Contractor and this system / plan will be approved by Foskor and the appointed designer (if applicable) before construction/fabrication will be started.

- Compliance to this plan will be measured and failure to adhere to the quality plan will result in the stopping of construction activities until concerns have been addressed. The cost for this delay will be for the contractor's account.
- Foskor may appoint a third part to measure and control Foskor's interest in the terms of quality in this contract and the contractor is expected to work in conjunction with this company
- Hold points will be discussed and finalized with the successful contractor based on the approved Quality plan

The Quality plan will only be compiled and signed off after the Method Statement and WBS have been compiled. Quality on Shutdown type tasks will be included in the Scope of Works, but the contractor will have to submit proof of an experienced quality assurer or relevant qualifications. IF the contractor does not have this it will be required that this service be hired in by the contractor at his cost.

- State and specify hold points that is not negotiable here
- State any other quality that is applicable that is not in the "Parameters" section

B5.1 Method statement – the contractor must list all steps and actions required to complete the work as per the scope of work – typically includes the items listed below:

- Key step and stages of the work required
- Tools, Equipment, TMMS, etc.
- Labour requirements, etc.
- Spares, resources,
- Safety requirements

WBS - WBS is a hierarchical and incremental decomposition of the project into phases, deliverables and work packages. It is a tree structure, which shows a subdivision of effort required to achieve an objective, for example a program, project, and contract.

This includes arrangements, tools, equipment labour, Tasks, Purchase, Quality, Communication, etc.

5. AFTER-SALES SERVICE

- 5.1 Full description of guarantee and guarantee period to be attached to the official tender
- 5.2 Full description of planned support during AND after the guarantee period to be attached to the official tender.

6. GENERAL

- 6.1 Any other optional support or guarantee not mentioned in this scope may be noted on the official tender.
- 6.2 If any minimum requirements may alter or be added for whatever reason, it will be brought to the attention of the contractor before the closing date.
- 6.3 All meetings will be held on site, unless arranged otherwise.
- 6.4 Pricing requirements are as follows:
 - i. Preference will be given to prices which are valid for a period of twelve (12) months
 - ii. Provide details of your escalation formula to be used after the initial twelve (12) month period. (Example, CPIX + 2%)
 - iii. All tendered prices to be exclusive of VAT.
 - iv. All prices **must** be submitted on the Pricing Schedule, Annexure A
 - v. Prices must include delivery to site and removal of waste from site.
 - vi. Installation prices must include surface preparation costs.
- 6.5 Tiles must be high wear resistant alumina ceramic tiles or similar approved type of tiles with and including approved type of tile glue and grouting as per manufacturers specification. Specification sheets must be submitted with your tender.

6.6 All work may be subjected to re-measurement by the Foskor approved Quantity Surveyor who will also sign off all invoices prior to payment.

7. ENQUIRIES

TECHNICAL:

L Marule

Tel: 015 789 2328

COMMERCIAL:

T Sebuthuma

015 789 2258

8. DISPOSAL OF REFUSE

The Contractor shall be responsible for disposal of refuse and waste generated by his staff on a daily basis. The site is to be kept clean, neat, and tidy, by complying with Foskor Waste Management COP

All stripped and scrap refuse shall be radiation tested and a certificate issued by Foskor's environmental department.

9. BATTERY LIMITS – INCLUSIONS AND EXCLUSIONS

List the boundaries in terms of equipment (Foskor plant specific). Up to where is it Foskor's responsibility and where/what is the contractor's responsibility.

| WHO WILL SUPPLY THE FOLLOWING? | | | | | |
|---|----|--|---|---|----|
| N/A = NOT APPLICABLE C = CONTRACTOR FF = FOSKOR, FREE OF CHARGE FC = FOSKOR, AT COST TO CONTRACTOR | | | | | |
| 1.Sanitary – | | 2.Transport | | 3.Electrical | |
| 1.1 Water on site and toilet facilities / janitorial services | FF | 2.1 Labour | C | 3.1 Generators | C |
| 1.2 Potable connection point | FF | 2.2 Materials | C | 3.2 Electrical Extensions | C |
| 1.3 Connection to construction water supply | FF | 2.3 Equipment | C | 3.3 COC Site Establishment | C |
| 1.4 Change rooms | FF | 2.4 All TMMS | C | 3.4 Temporary lighting | C |
| | | | | 3.5 Electrical connection point | C |
| | | | | 3.6 Connection to Electrical supply | FF |
| | | | | 3.7 Electric panel + distributing wiring | C |
| | | | | 3.8 Power for tools on site from existing Foskor electrical supply point (Welding plugs and 220v plugs) | FF |
| | | | | Electrical and Instrumentation Installation | C |
| 4. Quality – | | 5. Security | | 6. Lifting and Rigging | |
| 4.1 Plan, Management, QA, QC | C | 5.1 Site Security | C | 6.1 All rigging equipment (Slings, Chain blocks, turfers, etc. | C |
| 4.2 All quality test Civil, Paint, Mechanical, etc. | C | 5.2 Foskor ID Card | C | 6.2 Rigger | FF |
| 4.3 Sampling and laboratory testing | C | | | 6.3 Mobile cranes | FF |
| 7. Medicals - | | 8. Communication devices – All communication devices like laptops, computers, networks, radios, cellphones, etc. | C | 9. PPE | |
| 7.1 Entry and Exit | C | | | 9.1 Supply, Issue, inspect and manage | C |
| 7.2 First aid box at place of work | C | | | | |

| WHO WILL SUPPLY THE FOLLOWING? | | | | | |
|---|----|---|----|---|----|
| N/A = NOT APPLICABLE C = CONTRACTOR FF = FOSKOR, FREE OF CHARGE FC = FOSKOR, AT COST TO CONTRACTOR | | | | | |
| | | | | | |
| 10 Site Surveys | C | 11. Safety File - Foscok will issue template | FF | 12 Training & Authorizations | |
| Construction Reference Levels and site surveys | C | Ensure file conform/ populate to Foscok standards | C | 12.1 All Required Training | C |
| | | | | 12.2 Authorisation - As Per Foscok COP | FF |
| 13. Site Establishment | | 14 Waste management on site | | 15 Painting - All Equipment and tools paint, labour , etc. | C |
| 13.1 Site office/s with suitable facilities for daily "Green Area" meetings, and lunch area | C | 14.1 Transport all waste to Foscok designated waste sites | C | All on-site touchups (snags) and painting | C |
| 13.2 Site establishment space | FF | | | | |
| 16 Scaffolding | | 17 Labour | | 18. Compressed air | |
| 16.1 Scaffolding Supply & Erect | FF | 17.1 All labour as per Scope of Work to execute task including management | C | 18.1 Sandblasting or flash blast | C |
| 16.2 Scaffolds be managed by the Contractor | C | | | 18.2 Compressor | C |
| 16.3 Cherry Picker's – only if and when available by pre booking | FF | | | 18.3 Air for power tools - If available | FF |
| 16.4 Cherry Picker's Driver– Trained and authorized driver | C | | | | |
| 19 Fuel | | 20. Storage and inventory control | | 21 Consumables | |
| 19.1 Fuel Supply | C | 20.1 Protective coverings/tarpaulins | C | 21.1 Welding rods | C |
| 19.2 Fuel storage | C | 20.2 Storage area and inventory control | FF | 21.2 Bolts & Nuts | C |
| 19.3 Fuel fire protection | C | | | 21.3 Etc. | C |
| 19.4 Refuelling | C | | | | |
| 22 Tools & Equipment | | 23 Certificates - | | 24 Training | |
| 22.1 All Portable Electrical Equipment | C | Supply All certificates as required | C | All required training and training manuals as required to ensure that Foscok can train its workforce and operate the plant / equipment safely | C |

| WHO WILL SUPPLY THE FOLLOWING? | | | | | |
|---|---|--|--|---|---|
| N/A = NOT APPLICABLE C = CONTRACTOR FF = FOSKOR, FREE OF CHARGE FC = FOSKOR, AT COST TO CONTRACTOR | | | | | |
| 22.2 Hot Work Equip as per Foskor COP - Welding Machines, Gas Cutting, Grinding, Gauging, etc. | C | | | All manuals and related documents to be supplied to project Eng. and Foskor Drawing office for safe keeping | C |
| 22.3 Tools as required to execute task | C | | | | |
| | | | | 25 Mechanical | |
| | | | | | |
| | | | | | |
| | | | | | |

10. ON-SITE SUPERVISION REQUIREMENTS FOR WORK EXECUTED ON SITE

- A Foskor work permit before commencement of site work.
- A full time 2.9.2 appointed supervisor will be on this site for the entire duration of site work
- A 2.6.1 appointed site manager for overall site management
- Appointed SHE Rep for the entire duration of site work
- LACA approval to contractor 2.6.1 and 2.9.2

11. TENDER DELIVERABLES

The deliverables will include: -

- Complete Foskor pricing schedule (BOQ)
- Pre-Qualification criteria
- Tax Clearance
- Letter of Good standing (Workman compensation)
- BEE Certificate
- Commercial documents requested by Procurement
- Not submitting the required documentation or not completing the documentation (Pricing Schedule) correctly will lead to a disregard of the tender.
- Take note of the tender evaluation documents that need to be submitted (Technical and Commercial)
- Termination end-point requirements from Foskor, including:
 - Process
 - Mechanical
 - Instrumentation and Logic
 - Electrical
- Proposal for design, manufacture, supply, and installation of the new thickener internals mechanism

12. SAFETY

Contractor to refer to the full and updated FOSKOR COP's available:

- The contractor and subcontractors needs to comply with the Mine Health and Safety act at all times. All FOSKOR COP's Policies and procedures needs to be adhered to.
- A contractor 2.9.2 to be permanently on site per shift.
- Medical, Induction, FOSKOR ID Card, etc. is approximately R800 per Person. Exit medicals need to be done at the termination of contract.
- The Successful tenderer will be required to compile a FOSKOR Work permit and at least 2 weeks should be allocated for this. The contractor must provide the following appointed persons in terms of the MHSA: 2.6.1; 2.9.2 and Section 29(1) – SHE REP for the duration of the contract
- All vehicles and cranes and other TMM's to be inspected before entering FOSKOR Premises.
- All person competencies to be verified before being allowed to work on FOSKOR premises for a specific task.
- The contractor must compile a Safety File as per FOSKOR standard for all contractors and sub-contractors
- Site access will need to be controlled and all persons must receive site specific induction before entering the site.
- Conduct inspections as per FOSKOR Safety System. Analyse data and trends and recommend preventative measures where required
- Ensure all authorizations are in place as per the FOSKOR Safety System. Arrangement with FOSKOR training to be done by the contractor to ensure that authorization and training is conducted. Arrange timeously.
- Ensure all workers competencies are available and have been validated.
- Ensure proper security, sign boards, fencing and barricading is in place on site where applicable
- The contractor shall in general comply with the FOSKOR General Engineering Specifications, COP's, latest revisions and all relevant regulations
- The contractor must complete a Baseline risk assessment (COP 26) before a work permit can be issued for the installation
- All contractors not in possession of a valid FOSKOR ID card have to complete the FOSKOR induction course and have to undergo a medical examination at the FOSKOR clinic for the contractor's account
- The contractor shall be responsible for coordinating and integrating his schedule and responsibilities with other FOSKOR appointed contract manager on site for this Scope of Work.
- All personnel operating mobile equipment including LDV's must have a FOSKOR driver's permit.
- All LDV's entering the mining red flag area and tailings dam area must have ROPS and FOPS and be authorised by the 2.13.1 to enter the respective area. FOSKOR approved and Specified PDS system must also be installed.
- All the required PPE and Safety Equipment are for the contractor's account.
- All contractors must ensure that:
 - His workers are issued with the correct personal protective equipment free of charge.
 - That the workers wear the PPE in accordance with the project area's requirements or as given by the contractor Supervisor.
 - Training is provided in the correct use of PPE to workers.
 - Daily inspections are done on PPE.
 - The registers will be complete at least monthly on findings on PPE. (All PPE must be kept in good condition)
- All providers of services need be informed of the following minimum training is applicable to all contractors (irrespective of the tasks or scope of work) that will enter FOSKOR Phalaborwa site with effect from 1 April 2014. This training is not presented by FOSKOR Training section and service providers must ensure that the training is sourced through accredited external training companies:
 - Basic health and safety principles
 - HIRA
 - First Aid Training
- All other training requirements must be aligned with the baseline risk assessment. Risks identified in the baseline risk assessment will guide the requirements for training. A summary of the training must be completed as well as status on required authorization as per FOSKOR COP's.
- Training certificate will be accepted if complying to the following:
 - Unit Standard Title
 - Learner Full name
 - Learner ID no
 - Competency achieved

- Date of Assessment
- Assessors signature
- Training provider logo
- Training provider registration no and accreditation no
- Seta logo

1. LEGISLATIVE REQUIREMENTS – SUMMARY

2) The successful or appointed contractor shall comply with:

- a. The Mines Health and Safety Act with Regulations (Latest revision), with more specific attention drawn to MHSA 29 of 1996, CH2 – Section 21 (1) – (4)
- b. The National Road Traffic Act with Regulations (Latest revision)
- c. All applicable national and international legislative requirements and regulations.
- d. Foskop (Pty) Ltd. COP (Compendium Of Procedures) No. 25 for Contractor Control (Available on request)
- e. Foskop (Pty) Ltd. COP (Compendium Of Procedures) No. 59 for Trackless Mobile Machinery (Available on request)
- f. All Foskop (Pty) Ltd. safety, health, quality and environmental procedures. (Available on request)
- g. All Foskop procedures and policies applicable to the successful application of the contract. (Available on request)

EXTRACTS FROM FOSKOR COP's – Required to comply to complete Foskop COP's and Procedures

3) Before entering and operating a service vehicle (Own vehicle) on the Foskop site, the appointed contractor shall:

- a. Ensure that his driver/s are in possession of a valid national drivers licence for the specific class of vehicle, has been tested by the Foskop mobile equipment training centre and authorised by a Foskop MHSA (Mines Health and Safety Act) regulation 2.13.1 appointee for the class of vehicle to be used on site.
(Contact the Foskop mobile equipment training centre on 015 789 2840 to make an appointment for competence testing and authorisations)
- b. The appointed contractor shall, before entering and operating a vehicle or trailer on the Foskop premises:
 - i. Obtain permission from the Foskop Safety & Security manager to operate his nominated service vehicle/s or trailers on the Foskop site. (Forms will be provided)
 - ii. Obtain a certificate of fitness from the Foskop Light Vehicle maintenance workshop supervisor or appointed Foskop inspector for his nominated service vehicle/s. Inspections conducted daily between 08:00 and 08:30 and between 13:30 and 14:00 (Excl. Fridays) at the Light Vehicle Maintenance workshop.
 - iii. Submit the above permission and COF in at the main security office for issue of a vehicle access disk.
- c. Ensure that his service vehicles / trailers have been inspected (Daily) in accordance with the Foskop standard (COP 59) to ensure that they are safe and fit for use. (Forms will be provided)
- d. See Foskop COP 59, Trackless Mobile Machinery for details.

3) Before entering and operating/working on the Foskop site the appointed contractor shall ensure that his driver/workmen are:

- a. Briefed on the required task and have been informed of any abnormal conditions/situations.
- b. Physically, emotionally and mentally fit to perform their duty.
- c. Issued with the necessary PPE (Personal Protective Equipment) to safely operate his service vehicles and perform the duty of maintaining, servicing, inspecting and testing earthmoving- and mobile equipment.
- d. Before commencement of work:
 - i. All tools and equipment shall have been inspected and tested to be in a good and safe working order.
 - ii. All workmen have participated in the completion of a standard Foskop site risk assessment (Commonly known as a HIRA or Hazard Identification and Risk Assessment) and taken appropriate actions to mitigate any identified hazards.

4) Before entering and operating/working on the Foskop site the appointed contractor shall ensure that his portable electrical equipment have been tested and declared safe to use by the Foskop electrical services workshop.

- 5) Although every effort has been made to ensure that the information contained within this document is correct, it remains the responsibility of the bidder to verify actual status and site conditions. (A site visit can be arranged)

2. PERMIT TO WORK

Before any on-site work under this contract may commence, the appointed or successful contractor shall obtain from Foskor a FULL PERMIT TO WORK. The following guidelines are provided in order to assist the appointed contractor in obtaining a PERMIT TO WORK. (See Foskor COP 28, Permit to work and COP 25, Contractor control for details):

- 1) The FULL PERMIT TO WORK can be obtained from and on completion returned to the Legal Administrator, Foskor Safety department.
- 2) Obtain a contract number from the Foskor procurement department.
- 3) Appoint a subordinate manager in accordance with Regulation 2.6.1 and an on-site supervisor in accordance with Regulation 2.9.2 of the Mines Health and Safety Act.
 - a. The appointed subordinate manager and supervisor shall be required to write and pass the Foskor 2.6.1 and 2.9.2 legal examinations within 30 days after being awarded this contract.
 - b. Attend an hour long legal exam briefing any Thursday between 08:00 and 09:00 at the Security training hall.
 - c. Write legal examination any Friday between 07:30 and 10:30 at the Security training hall. (Please book)
 - d. Successful LACA registration
- 4) Appoint an on-site SHE-Rep in accordance with section 29(1) of the MHSA to assist the Regulation 2.6.1 and 2.9.2 in the daily on-site management of health, safety and environmental issues.
 - a. The designated SHE Rep must have the ability to read, write and express him/herself.
 - b. The appointed SHE-Rep shall be required to attend a five day SHE-Rep training course within 30 days after being awarded this contract (Training free of charge). Make a booking on 015 789 2531

A pre-requisite for attending the SHE-Rep training course is successful completion of Basic Health & Safety Principles and HIRA training. (See item 8(a) below)

- c. See Foskor's COP 5 Health and Safety Representatives for details.
- 5) Provide a name list, including ID numbers, residential and postal addresses and telephone numbers of all of the appointed contractors' on-site employees.
- 6) All of the appointed contractors' on-site employees shall undergo a full medical examination at the Foskor on-site Clinix Clinic. The clinic can be contacted at 015 789 2427 for an appointment.
(NOTE: Employees leaving the service of the appointed contractor must undergo an exit medical examination)
- 7) The appointed contractors' designated on-site drivers shall receive competence testing and authorisation to operate vehicles on the Foskor site (See item 2(a) under the heading LEGISLATIVE REQUIREMENTS).
- 8) All of the appointed contractors' employees shall receive/have received training in:
 - First aid level 1 (Provide own training)
 - Basic Health & Safety Principles (Provide own training)
 - HIRA (Provide own training)
 - Basic firefighting. (Provide own or receive Foskor training, contact 015 789 2531 to book)
 - Lock out. (Provide own or receive Foskor training, contact 015 789 2531 to book)

All training not provided by Foskor must be verified by the Foskor Training Superintendent Mr Johan Fouche. Please contact him on 015 - 789 2525 to make an appointment or alternatively email proof of training and certificates to johanfo@foskor.co.za to confirm compliance before requesting his approval on the PERMIT TO WORK.

- 9) All of the appointed contractors' on-site employees shall receive the basic Foskor site induction training at the Foskor Security office.
- 10) All of the appointed contractors' on-site employees shall receive site specific induction training provided by the Foskor area Regulation 2.6.1 appointee/s.
- 11) A HIRA (Hazard Identification and Risk Assessment) shall be completed for ALL "typical" tasks that will be completed under this contract. HIRA's to be signed by all contractor employees. Make use of Foskor's own HIRA document, Annexure 1.2, contained in of COP 1, Foskor risk management
- 12) All Foskor's appointed MHSA Regulation 2.9.2, 2.6.1, 2.13.1 and 3.1.a managers must undersign/approve the PERMIT TO WORK.
- 13) Registration and proof of payment under the Compensation for Occupational Injuries and Diseases Act, no. 130 of 1993. Registration number must be provided.
- 14) SARS issued tax clearance certificate.
- 15) All relevant documentation and/or evidence of compliance must be attached to the PERMIT TO WORK.

- 16) Upon successful completion and approval of the PERMIT TO WORK the security department will issue the appointed contractors' employees with access ID cards valid for 12 months.
- 17) Any other documents, certificates or records as requested by a Foskop official deemed necessary to ensure that all safety, legislative and administrative requirements have been met must be attached to the PERMIT TO WORK.
- 18) The appointed contractor must allow at least three to ten working days to complete all the PERMIT TO WORK requirements.

3. SAFETY FILE

The appointed contractor must compile a SAFETY FILE specifically for this contract. The SAFETY FILE must at all times be available for inspection by a Foskop official: The following guidelines are provided in order to assist the appointed contractor in compiling a SAFETY FILE:

Note! A safety file index is available from Foskop Safety Department

- 1) Title and index cover page
- 2) A copy of the PERMIT TO WORK.
- 3) A copy of the MHSA Regulation 2.6.1 and -2.9.2 and SHE Rep appointment letters.
- 4) A copy of Foskop COP 25, Contractor control.
- 5) Base line risk assessment of ALL and ANY POTENTIAL tasks that may be performed on site under this contract. See Foskop COP 26, Critical Task Descriptions for details.
- 6) Copies of critical task descriptions and standard operating/maintenance procedures.
- 7) Copies of the appointed contractor's safety, health, environmental, HIV and AIDS, smoking and waste management policies.
- 8) Training records of all on-site employees.
- 9) Employee records of actual time worked (Normal and overtime).
- 10) Copy of on-site induction training.
- 11) Records of inspections of TMM (Trackless Mobile Machinery) and trailers. See Foskop COP 59, Trackless Mobile Machinery for details.
- 12) All documentation and certification related to COP 56.
- 13) Records of issues and inspections of PPE (Personal Protective Equipment) and safety equipment. See Foskop COP 65, Personal Protection Equipment for details.
- 14) Records of issues and inspections of PEE (Portable Electrical Equipment). See Foskop COP 60, Portable electrical Equipment for details.
- 15) Records of issues and inspections of tools and equipment. See Foskop COP 63, hand tools for details
- 16) Records of daily, weekly and monthly 2.6.1 / SHE Rep safety inspections. See Foskop COP 22, SHE Inspections for details.
- 17) Records of daily green-area and safety talks. See Foskop COP 7, Communication for details.
- 18) Any other documents, certificates or records as requested by a Foskop official deemed necessary to ensure that all safety, legislative and administrative requirements have been met.

- **Note: Contractor can obtain an updated CD/Disk with all Foskop COP's from Abigail Modika at Projects Department.**

COP 25 – CONTRACTORS LEGAL OBLIGATION AND MINIMUM REQUIREMENTS

Contractor must comply to the requirements below within 4 weeks from awarding the contract unless otherwise agreed with 3.1 a and SHE Manager within 10 days from the awarding of such contract

| | Visitors | Short Term Contractors (1-5 days) | Medium Term Contractors (1 days -1 month) – low risk | Long Term Contractors (>1 month) – low risk work | Medium or Term Contractors (1 days up to 12 month) – Risk work |
|----------------------|---|--|--|---|---|
| Definition | Consultations, Sales persons, Foskor arranged and organised visitor groups, Family of injured employees | Deliveries, Consultation, Specialist, Auditors for less than 5 days and do not exceed 4 visits per year | Contractors working on the Mine premises for period more than 6 day but less than 1 month. | Duration of work is longer than 1 month | Duration of work is irrelevant (only focus on Risk exposure) |
| Special conditions | May perform no work on site | May perform no physical work on site that will involve tools, equipment or machinery. | <ul style="list-style-type: none"> No work that relates to life saving behaviours e.g. Construction, Conveyors, Lifting, Electrical, Lock-out, Working at Heights, Hot work. Specialist and consultants (experts) working in teams smaller than 5 for less than 1 month on site. | No construction work or work that relates to life saving behaviours e.g. Conveyors, Lifting or Rigging, Electrical maintenance, Lock-out, Hot work, confined spaces, use of TMM's, Working at heights | This include all work relating to relates to life saving behaviours (risk work) and therefore must comply to relevant training and Authorisations as required in the Foskor COP's before work can start and permits signed. |
| Supervision | The organiser is responsible for the group. The visitors <u>must</u> be accompanied by a Foskor Regulation 2.9.2, Regulation 2.6.1 or legally appointed person. | Direct supervision of Foskor appointed Regulation 2.9.2. and Regulation 2.6.1 | Direct supervision of Foskor appointed Regulation 2.9.2. and Regulation 2.6.1 appointed manager may be provided if contractor is unable to supply. | Must provide dedicated Regulation 2.9.2. with proof of competency and direct supervisor. Regulation 2.6.1 appointed manager may be provided if contractor is unable to supply. | Must provide <u>dedicated</u> Regulation 2.6.1. and Regulation 2.9.2. appointees with proof of competency. The Regulation 2.9.2 appointee must have technical competency and experience in line with scope and trained in the in all aspects as defined in Baseline risk. |
| Medical Surveillance | Only completed a declaration of fitness and health matters relevant to visit | Shortened medical surveillance Must declare Pregnancy and all chronic medical conditions at Mine Clinic | Full Medical Surveillance as per COP Must declare Pregnancy and all chronic medical conditions at Mine Clinic | Full Medical Surveillance as per COP Must declare Pregnancy and all chronic medical conditions at Mine Clinic | Full Medical Surveillance as per COP Must declare Pregnancy and all chronic medical conditions at Mine Clinic |
| Permit required | Day Permit is obtained at Security (Valid for 1 day) | Short term ID card at Security Return permit to Security when completed. (Permit each day) | Short term ID card at Security Permit to work at Foskor is required unless Specialists or Product experts. Return Permit to Security when work is complete | Permit to work at Foskor Permanent ID at security Return Permit to Security when work is complete | Permit to work at Foskor Permanent ID at security Return Permit to Security when work is complete |

| Induction | SHEQ Induction pamphlet only | Attend full Foskor Induction Site Specific Induction SHE Induction Pamphlet | Attend full Foskor Induction Site Specific Induction SHE Induction Pamphlet | Attend full Foskor Induction Site Specific Induction SHE Induction Pamphlet | Attend full Foskor Induction Site Specific Induction SHE Induction Pamphlet |
|-------------------------|------------------------------|---|--|--|---|
| Minimum training | None | None | 1. First Aid Training 2. HIRA 3. Understanding Basic Health and Safety Principles | 1. First Aid Training 2. HIRA 3. Understanding Basic Health and Safety Principles <u>PLUS</u> all training as defined in Baseline risk assessment and Scope (COP 1) | 1. First Aid Training 2. HIRA 3. Understanding Basic Health & Safety <u>PLUS</u> all training as defined in Baseline risk assessment and Scope (COP 1). When construction or maintenance work is done – minimum 1 artisan per team. |
| Letter of Good standing | Not required | Not required | <u>May</u> be required (dependant on scope) and correct nature of business must reflect on the Letter of Good standing | Required and correct nature of business must reflect on the Letter of Good standing | Required and correct nature of business must reflect on the Letter of Good standing |

Reminder of Risk definition – LIFE SAVING BEHAVIOURS

1. Risk assessment and clearance certificates
2. Lifting Operations
3. Working at heights
4. Confined Space entry
5. Positive Energy Isolation and lockout
6. Moving Machinery
7. Personal protective equipment

Risk assessment is also on life saving behaviours – but this is applicable to all jobs and training apply to all that will do physical work!

13. PARAMETERS

13.1 Design parameters

All plant and equipment will be designed to:

- Operate satisfactorily under atmospheric, ambient and other conditions present at the site location
- Ensure interchangeability of units and/or sub parts throughout the plant to reduce spares holding requirements – take old plant equipment into account
- Ensure reliability and maintainability. A minimum availability of 98% is required
- Operate without undue vibration, stresses (temperature and built in) and excessive noise
- Comply with legal requirements in terms of the water license and DWA

13.2 SPECIFICATIONS, CODES, STANDARDS AND REGULATORS

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

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

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

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

13.3 ENVIRONMENTAL MANAGEMENT SYSTEM SPECIFICATIONS

The successful or appointed service provider shall comply with the following Environmental Specifications, Policies and Procedures:

- a) COP 41 Housekeeping and workplace organisation
- b) COP 49 Waste Management
- c) COP 51 Resource conservation, energy, and materials
- d) COP 70 Storage of petroleum products and other hazardous material
- e) National Environmental Management Act 107 of 1998 (NEMA)
- f) National Environmental Management Waste Act 59 of 2008 (NEMWA) as amended
- g) The successful service provider shall include in his/her SAFETY FILE, and comply with, the following documents:
 - i. Environmental Aspect and Impact Register (Applicable to this contract).
 - ii. Environmental Objectives and Targets (Applicable to this contract).
 - iii. Waste Management Plan (Applicable to this contract).
 - iv. FOSKOR Atmospheric Emissions License (Copy available on request)
 - v. FOSKOR Waste Management Licence (Copy available on request)
 - vi. FOSKOR Water Use Licence (Copy available on request)

13.4 SITE GEOGRAPHY

The plant is located at Phalaborwa, Limpopo, South Africa



















13.5 **Ambient conditions**

- Ambient temperature

| | | |
|--------|-----------------|----------------|
| Summer | 35 Degrees Avg. | 50 Degrees Max |
| Winter | 17 Degrees Avg. | 2 Degrees Min |

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

13.6 FOSKOR GENERAL ENGINEERING SPECIFICATIONS *(should be consulted prior to finalization of any design or specification)*

|  | Name | Modified | Modified By |
|---|---|--------------------|--|
|  | Engineering Specification Index | ... 15 April, 2016 | <input type="checkbox"/> Khayelihle Pepu |
|  | GS001 - General Design Information - Rev 1 | ... 15 April, 2016 | <input type="checkbox"/> Khayelihle Pepu |
|  | GS002 - Engineering Drawings - Rev 0 | ... 15 April, 2016 | <input type="checkbox"/> Khayelihle Pepu |
|  | GS003 - Quality Control Procedures - Rev 0 | ... 15 April, 2016 | <input type="checkbox"/> Khayelihle Pepu |
|  | GS005 - Concrete and Formwork - Rev 0 | ... 15 April, 2016 | <input type="checkbox"/> Khayelihle Pepu |
|  | GS007 - Plate work - Rev 0 | ... 15 April, 2016 | <input type="checkbox"/> Khayelihle Pepu |
|  | GS008 - Welding procedures - Rev 0 | ... 15 April, 2016 | <input type="checkbox"/> Khayelihle Pepu |
|  | GS009 - Structural fabrication and erection - Rev 0 | ... 15 April, 2016 | <input type="checkbox"/> Khayelihle Pepu |
|  | GS011- Piping - Rev 0 | ... 15 April, 2016 | <input type="checkbox"/> Khayelihle Pepu |
|  | GS012 - Pressure vessels - Rev 0 | ... 15 April, 2016 | <input type="checkbox"/> Khayelihle Pepu |
|  | GS013M - Painting and Protective Coatings | ... 15 April, 2016 | <input type="checkbox"/> Khayelihle Pepu |
|  | GS014 - Rubberlining - Rev 0 | ... 15 April, 2016 | <input type="checkbox"/> Khayelihle Pepu |
|  | GS015 - Fencing - Rev 0 | ... 15 April, 2016 | <input type="checkbox"/> Khayelihle Pepu |
|  | GS016 - Roofing and side cladding - Rev 0 | ... 15 April, 2016 | <input type="checkbox"/> Khayelihle Pepu |
|  | GS017 - Fuel - Rev 0 | ... 15 April, 2016 | <input type="checkbox"/> Khayelihle Pepu |
|  | GS018 - Lubrication - Rev 0 | ... 15 April, 2016 | <input type="checkbox"/> Khayelihle Pepu |
|  | GS019 - Liquid containemt bund walls - Rev 0 | ... 15 April, 2016 | <input type="checkbox"/> Khayelihle Pepu |
|  | GS020 - General purpose valves - Rev 0 | ... 15 April, 2016 | <input type="checkbox"/> Khayelihle Pepu |
|  | GS021 - Gearboxes - Rev 0 | ... 15 April, 2016 | <input type="checkbox"/> Khayelihle Pepu |
|  | GS022 - Chainblocks and lever hoists - Rev 0 | ... 15 April, 2016 | <input type="checkbox"/> Khayelihle Pepu |
|  | GSI-004 - Field Instrumentation Standards | ... 15 April, 2016 | <input type="checkbox"/> Khayelihle Pepu |

Contrator /Supplier - Please ensure that you have the latest copy of Specifications before any activity is committed

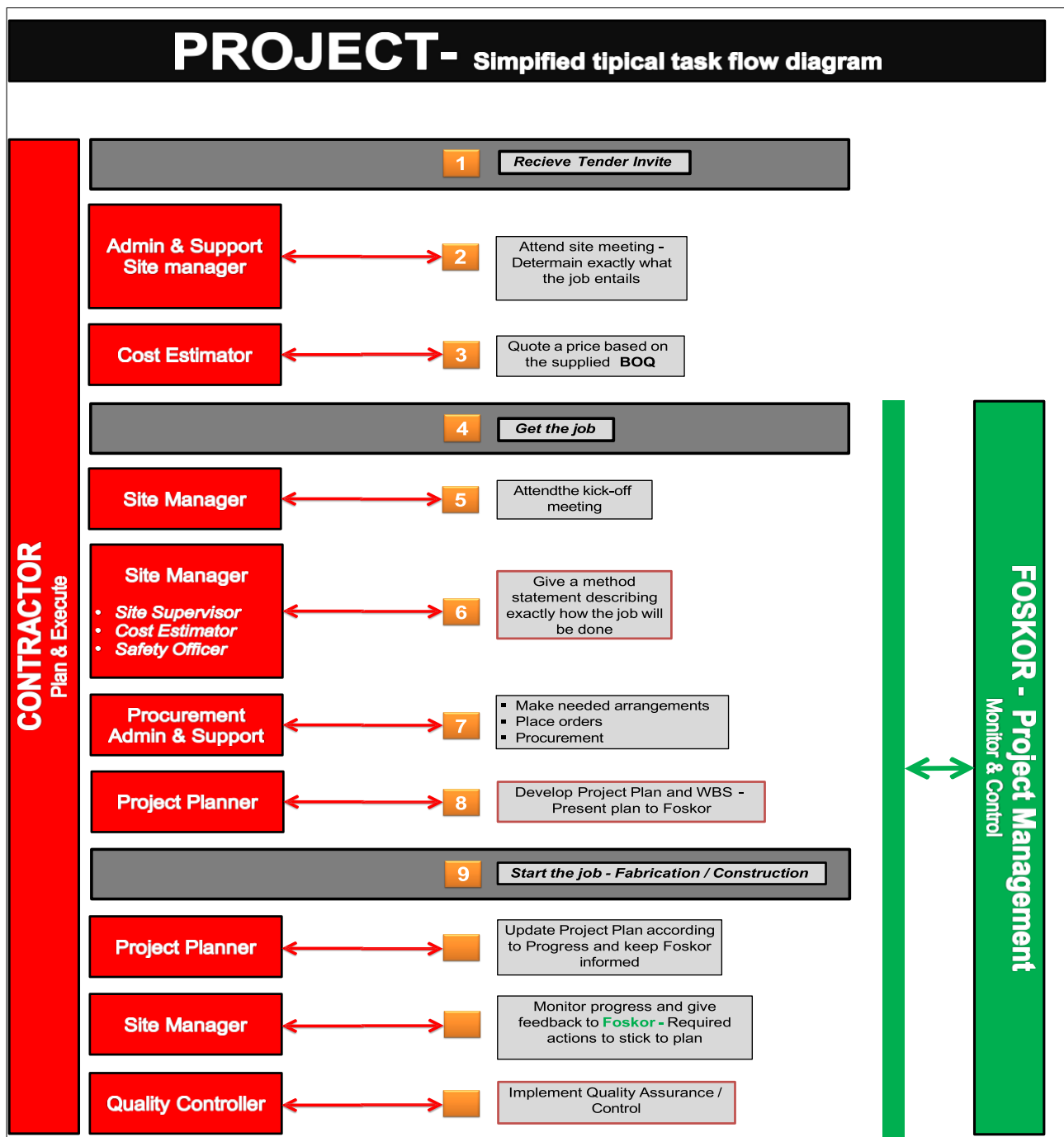
| ELECTRICAL SPECIFICATIONS | | |
|----------------------------------|-----------------|---|
| 1. SPECIFICATION NUMBER | REVISION | TITLE |
| EE-1 | Latest Revision | Motor Control Centre & Switchgear |
| EE-2 | Latest Revision | Squirrel Cage Induction & Wound Rotor Motors |
| EE-11 | Latest Revision | Power Factor Correction Equipment |
| GE-1 | Latest Revision | Design Criteria for Electrical Installations |
| GA-1 | Latest Revision | Procedures for Enquiries & Tenders |
| GD-1 | Latest Revision | General Requirements for Design, Project Management & Tenders |
| GD-2 | Latest Revision | Engineering Change Order (E.C.O) Procedure |
| GM-1 | Latest Revision | Mechanical Equipment |
| GM-5 | Latest Revision | Pipe Standards |
| GM-6 | Latest Revision | Engineering Drawing & Document Requirements |
| GM-8 | Latest Revision | Surface Protection |
| GM-3 | Latest Revision | Painting & Surface Protection of Steel |
| GS-1 | Latest Revision | Structural Steel work & Plate work Fabrication & Erection |
| | | |
| GQ-1 | Latest Revision | Quality Control |
| GI-1 | Latest Revision | General Specifications & Procedures |
| GI-2 | Latest Revision | Installation & Commissioning |
| GI-3 | Latest Revision | General Equipment Specification |
| GI-4 | Latest Revision | Field Instrumentation Specification |

13.6. **PROJECT MANAGEMENT - Contractor**

- Nominate a single window of communication to Foscok – Typically the appointed contractor 2.6.1
- Attend meetings as agreed during the project kick off meeting
- Submit Progress reports (Format & interval) as defined in the Kick off Meeting (Invoicing, Labour, Performance against plan, Contractor purchases, Quality Management, Safety, Etc.
- Manage and participate in the "Daily Journal" as part of executing the project
- All meetings will be held at FOSKOR offices, unless otherwise stated
- The contractor to provide updated project management plans on progress as defined by the Foscok Project Engineer
- If the project is executed based on a shutdown approach the contractor will produce a formal Works Breakdown Structure of the works.
- If the contractor cannot produce a proper WBS then the contractor will be required to subcontract this function to produce the WBS and manage the WBS for the duration of the project. This cost must be included in the contractor's price

- WBS - **WBS** is a hierarchical and incremental decomposition of the project into phases, deliverables and work packages. It is a tree structure, which shows a subdivision of effort required to achieve an objective; for example a program, project, and contract.
- This includes arrangements, tools, equipment, labour, Tasks, Purchase, Quality, Communication, etc.
- Project progress updates - If the contractor cannot produce proper updates on a WBS then the contractor will be required to subcontract this function to produce the WBS updates for the duration of the project. This cost must be included in the contractor's price

The contractor is responsible for managing the project and this is graphically displayed below indicating where what functions lies. Graphical presentation only covers some basic aspects.



14.1 LIAISON AND CO-OPERATION WITH OTHERS

- The CONTRACTOR shall be required to co-operate and liaise with FOSKOR appointed project manager
- The CONTRACTOR must note that construction is within an operational plant.
- The CONTRACTOR may appoint a FOSKOR approved sub-contractor
- The CONTRACTOR shall be required to work in conjunction with the FOSKOR appointed structural-, electrical-, equipment- and instrumentation installation contractor.

15. GENERAL CONDITIONS - COMMERCIAL

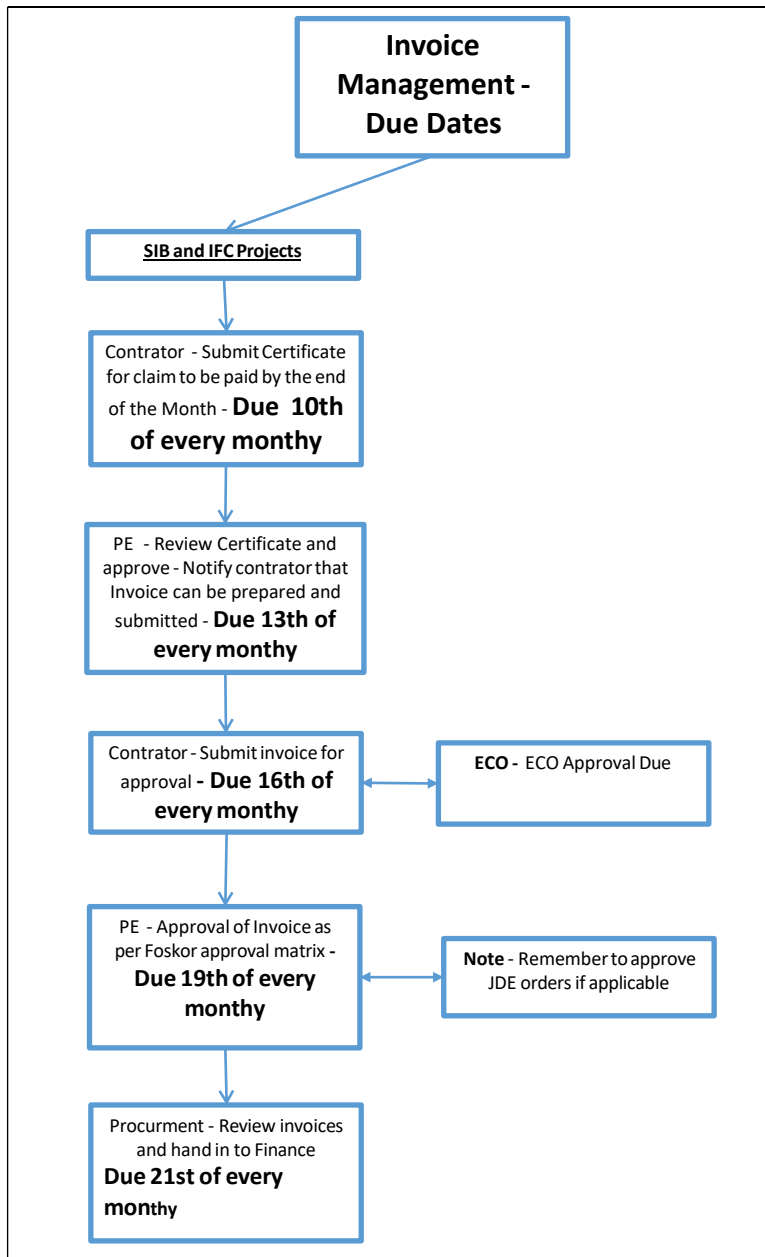
- Extension on the promise completion or Milestone date may be requested but needs to be approved by FOSKOR. The contractor should be in possession of a formal document issued via FOSKOR Procurement indicating that this request was approved
- Any additional works not defined in the order needs to be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

| Description | Condition | Duration |
|-----------------------|---|---|
| Penalties | 0.5% per week | Late Delivery after the promised milestone date |
| Performance Bond | 0% of Contract Value | 0 Year after completion |
| Retention | 2 % of Contract value | Released three (3) months after commissioning and hand over |
| Type Of Contract | FOSKOR Standard Terms and Conditions for Services and Contracts | |
| Tender price validity | 90 days | |
| Escalation | None | Fixed and firm price |

All delays must be immediately brought under the attention of the relevant Project engineer

15.1 Invoice due dates

The Due dates for certificate and invoices are outlined in the graphical presentation



16.1. TENDER EVALUATION CRITERIA

The attached spreadsheet to this scope contains a tender evaluation criterion to be used as well as all supporting information required on the different sheets as provided. You can amend the spreadsheets to suit your needs, however, the requested information will be required to score each individual tendere. Failure to submit supporting documents for the requested information will lead to points not awarded. Please ensure a neat submission is done which is in order with the evaluation criteria to allow ease of evaluation.

Pricing Schedule**Tender No.: T -24****Description: 40ft Thickener 3 Mechanism Retrofit**

The following needs to be included in your rates or totals – Refer to Scope – Typically but not limited to:

- PPE
- Work Permit
- Training (All mandatory training and specific work-related training)
- Authorisation (All mandatory authorisations and specific work-related authorisations)
- Site establishment
- Medicals
- Transport (all vehicles entering **tailings** and **mining** area to have ROPS, FOPS and PDS)
- Supervision
- Safety Equipment and related items
- Site clean-up
- Supply,
- Labour
- Painting& touch-ups,
- Preparation work,
- Equipment
- Consumables
- Electrical Extensions for Work
- Quality control

- **PRICING SCHEDULE**

Pricing needs to be broken down into pricing components in the project proposal submission. Project invoices shall be paid in accordance with the submitted pricing schedule for material delivered to Foskor site. Should alternative "terms of payment" apply, it must be specifically stated as such for consideration before the project bid award.

T /24 – 40ft Thickener 3 Mechanism Retrofit

| Item | Description | UOM | Qty | Unit Price | Sub Total |
|----------|---|-----|-----|------------|-----------|
| 1 | Preliminary & General | | | | |
| 1.1 | Time-Related P & G's – Includes all construction, construction management and supervision, administration, legal, insurance management, travelling, accommodation, transport, licenses, safety, and project management, etc | sum | | | |
| 1.2 | Site Establishment - Work permit, infrastructure set up, etc | sum | | | |
| 1.3 | Site De-Establishment | sum | | | |
| 1.4 | Other (specify) | sum | | | |
| | | | | | |
| | NOTE: All invoices will be paid when material/equipment is delivered Onsite. | | | | |
| | GENERAL NOTES | | | | |
| | (a) All rates should include labor rates, delivery to site, offloading, handling, and site storage, etc. | | | | |

| | | | | | |
|--|---|------|---|----------|--|
| | (b) Rates shall include for all fabrication work, welding, marking, drilling, for bolts, steel plates, bolts, nuts and any type of washer, riveted work, counter sinking and tapping for bolts or machine screws. | | | | |
| | (c) Rates shall include for assembly, erection, temporary supporting and fixing into position. | | | | |
| | | | | | |
| 2 | Design and Engineering Services | | | | |
| 2.1 | Design and Engineering | sum | 1 | | |
| 2.2 | Provision for a full set of drawings | sum | 1 | | |
| 3 | Supply: One (1) off complete 40ft Hi-rate Thickener Mechanism (with requirements as defined in Scope of work) | set | 1 | | |
| 4 | Supply: Instrumentation and Control for 40ft Thickener mechanism and mechanism protection | set | 1 | | |
| 5 | Junction Box | each | 1 | | |
| 6 | Electrical Panel | each | 1 | | |
| 7 | Torque tube | each | 1 | | |
| 8 | Rake arms & Blades | set | 1 | | |
| 9 | Painting | sum | 1 | | |
| 10 | Cold/Hot Commissioning | sum | 1 | | |
| 11 | Other Specify: | | | | |
| | | | | | |
| | | | | | |
| Total Project Value (Excl. Vat) | | | | R | |
| | Note: The onus lies with the supplier to ensure correct dimensions, and all other considerations have been taken into account. | | | | |

*Optional pricing for additional services rendered

BBBEE Level _____ (Mandatory) Completion _____ days Price validity _____ days

I, _____ in my capacity as _____ for and on behalf of _____ hereby acknowledge that I have read and understand the Instruction to Tender and the Scope of Work as detailed in this document and accept all the terms and conditions of tender T /24.

Signed at _____ on this the _____ day of _____ 2024

Signature: _____

Witness:

1. _____ Name: _____

2. _____ Name: _____

For and on behalf of Foskor (Pty) Ltd

Name: _____

Signature: _____

Designation: _____

Date: _____

NOTE: The onus lies with the tenderer to make sure that all formulas and calculations are correct.**ACCEPTANCE**The conditions and requirements as stated in this "Scope of Work" are accepted with the following **exceptions / exclusions**: -

The conditions and requirements as stated in this "Scope of Work" are accepted with the following **inclusions**: -

Subcontractor (please provide list and function)

Failure to complete this form may lead to disqualification – please do not leave blanks

| | | | | | |
|-----------------|-----------------------------|---|---------------------------|-----------------------|---------------------------|
| BBBEE Level | <input type="text"/> | Black Ownership | <input type="text"/> % | Black Woman Ownership | <input type="text"/> % |
| Tender Validity | <input type="text"/> Days | Manufacturing Period | <input type="text"/> Days | Installation Period | <input type="text"/> Days |
| Guarantee | <input type="text"/> Months | Commencement after receipt of official purchase order | <input type="text"/> Days | | |
| Payment terms | <input type="text"/> | | | | |

Price Basis for the duration of the contract / till supply of goods (Please tick):

| | | | | |
|----------|--------------------------|-------------------------|---|---|
| Fixed | <input type="checkbox"/> | Duration of fixed price | <input type="text"/> 12 Months <input type="checkbox"/> | <input type="text"/> 24 Months <input type="checkbox"/> |
| Variable | <input type="checkbox"/> | Price Base Date | <input type="text"/> | |

If variable provide price variation factors, percentages and formula in cover letter. (Please specify indices to be used)

Price variation factors & percentages (e.g. material, labour, fuel, overheads, admin etc.)

| Factor | % | Factor | % | Factor | % | Factor | % | Factor | % |
|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> | <input type="text"/> |

Where prices include a foreign currency rate please provide:

| | | | |
|--------------------------|------------------------|-----|----------------------------|
| % of price subject R O E | <input type="text"/> % | ROE | <input type="text"/> = ZAR |
|--------------------------|------------------------|-----|----------------------------|

ROE Base Date

Note: If the above fields are not completed, it is confirmed that the quoted price/s are valid for the entire contract period mentioned and no escalation in the price is allowed under any circumstances.

I, _____ in my capacity as _____ for and on behalf of _____ hereby acknowledge that I have read and understand the Instruction to Tender and the Scope of Work as detailed in this document and accept all the Terms and Conditions of Tender **T -24 - 2024**.

Signed at _____ on this the _____ day of _____ 2024

Signature: _____

Witness:

1. _____ Name: _____

2. _____ Name: _____

For and on behalf of Foskor (Pry) Limited

Name: _____ Signature: _____

Designation: _____ Date: _____

Note: It is imperative to complete this schedule in full where applicable, marked "N/A" where not applicable and signed off in full, **unsigned bids will not be accepted**. All the supporting documentation requested with the tender document, scope of work and evaluation criteria need to be submitted with the tender. Tenders received without supporting documentation requested for the tender evaluation **will not be considered**.

Technical Evaluation Criteria

| T /24 - 40ft Thickener 3 Mechanism Retrofit | | | |
|---|---|--------------------|--|
| No | Technical Criteria Description | Point Contribution | Proof / documents to be submitted |
| 1 | Experience & Team competence | 50 | |
| 1.1 | <p>Company – Previous successful thickener design, manufacture, and replacement projects</p> <p>Scoring: 0 Projects = 0 1-2 Projects = 3 3-5 Projects = 10.5 >5 Projects = 23 +2 for submission of completion letters</p> | 25 | <p>Give a reference list of projects supplied and/or installed, with dates, project values and contact numbers of clients for verification Advantageous to add the Client's letter indicating the successful completion of the previous project</p> <p><u>Annexure C</u></p> |
| 1.2 | <p>Company - Previous Thickener Projects/orders for the value of >R2,000,000.00 per project/contract awarded</p> <p>Scoring: <R2m = 0 R2m – R3m = 8 >R3m -R5m = 13 >R5m = 23 +2 for submission of completion letters</p> | 25 | <p>Give a reference list of projects supplied and/or installed, with dates, project values and contact numbers of clients for verification Advantageous to add the Client's letter indicating the successful completion of previous project</p> <p><u>Annexure C</u></p> <p><i>Note: Information supplied for 1.1 can be further assessed for 1.2</i></p> |
| 2 | Technical/Quality system requirements | 50 | |
| 2.1 | <p>Proposal of concept to Design, manufacture and install is to the satisfactory requirements of Foskor as described in this document</p> <p>Scoring: No Proposal = 0 Partially adequate = 15 Meets requirements = 30</p> | 30 | <p>Submit a proposal with working methodology of thickener concept.</p> <p><u>Annexure D</u></p> |
| 2.2 | Quality management systems or quality control procedures for designing and fabrication of thickeners, where ISO 9001:2015 certification will be advantageous | 10 | Proof of QMS/QCP and valid ISO9001:2015 accreditation will be advantageous |

| | | | |
|--|--|-----|---|
| | Scoring: No QMS/QCP submitted =0 Satisfactory QMS/QCP (not signed) submitted = 5 Detailed QMS and previously signed QCP submitted = 8 +2 if ISO certification is attached | | <u>Annexure E</u> |
| 2.3 | Project execution plan Scoring: No Excecution Schedule =0 Satisfactory project plan submitted = 5 Lacking any of the details below Detailed project plan = 10 Milestones Lead times Critical path Baseline columns | 10 | Proof of envisaged project execution methodology (or reference to a previous project execution) <u>Annexure F</u> |
| | | | |
| | Total | 100 | |
| Note: For the bid to be considered the bidder needs to score 70 and above and comply to all mandatory requirements | | | |

