

SCOPE OF WORKS

Supply and install 250nb steel rubber lined pipeline from Ext 8 to DSF

Signatures

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23 November 2023

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Client

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SCOPE OF WORK

Tender No.: TXX/23

Description: Supply and install 250nb Steel pipeline form Ext 8 to DSF

1 PRE-QUALIFICATION

No	Pre-Qualification Requirements	Comments
1	CIDB Rating of at least 5 ME or SL Scoring: Yes or No	Provide certificate of CIDB grading

1.2 DEFINITIONS AND ABBREVIATIONS

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

2. INVITATION TO TENDER

This document prescribes the requirements the supply, fabrication, excavation, installation, etc for the installation of a 250nb steel rubber lined pipeline form Ext 8 pep mills to DSF flotation plant

2.1 SCOPE BACKGROUND

Foskor requires the pipeline to add additional flexibility to the flotation circuit.

2.2 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 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.

3. SCOPE OF WORK

3.1 BACKGROUND DOCUMENTATION

None

3.2 SCOPE - EXTENT OF WORK OR SERVICE REQUIRED

3.2.1 General Scope Considerations:

Please allow for a competent Quality Control Officer to compile and manage the contractor's quality management. In the event of quality system failures, Foskor will request the Quality Official's experience and qualifications and if this is not acceptable, it will be expected that the contractor obtains this service at his/her own cost.

Please allow for a competent person to compile the method statement and the subsequent Microsoft Project plan. This person will manage and update this plan weekly and present it to the Foskor Project Engineer. It is expected that this planning and management is executed by the contractor. This service will be provided at the contractor's cost. If the contractor cannot execute this planning and report to management, it will be expected that the contractor obtains this service at his/her cost.

Scaffolding needs to be arranged by the contractor. It is expected that arrangements will be communicated to the Foskor Scaffolding company at least 3 days before the requirement. Proof of request and arrangements and actual scaffolding installation for Scaffolding to be provided to Foskor on request.

3.2.2 Project costing and expenses:

The contractor shall supply all engineering services, materials, labour, transport, supervision, and consumable materials, equipment, tools and every item of expense for the scope of work to be completed successfully unless otherwise stated taking the following into consideration.

3.2.3 Disposal of refuse

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

3.2.4 General requirements for commissioning

Commissioning or handover will be executed as per FOSKOR Procedures or as directed by the Engineer. Normally the FOSKOR Punch list and Hand over certificate will be used.

3.2.5 The successful or appointed service provider shall comply with the latest revisions of the following FOSKOR CTD's (Critical task Descriptions) (CTD's are available on request):

- i. Not Applicable

3.2.6 Sub-Contracting and joint ventures

The primary aspect of the works may not be subcontracted. For subcontracting the relevant companies supporting documentation needs to support the bidder's tender.

Joint Ventures must be declared in the bidder's tender with all relevant supporting documentation.

The main contractor must pass the technical evaluation criteria.

3.2.7 PROGRESS REPORT – TO BE SUBMITTED BY THE CONTRACTOR

A progress report needs to be submitted monthly to the respective project engineer or project leader. This will form the basis for invoice certificates and invoice approvals in conjunction with the relevant Bill of Quantities. No invoice shall be approved without supporting documents to substantiate the claim and monthly report.

PROGRESS REPORT INDEX – TYPICAL

1. SHREQ

- Safety issues, Environmental, Incidents, etc
- Legal Appointees

- Work Permit Expiry date
- Letter of Good standing Expiry date

2. COMPLIMENT

- Trades, Qty, Hours, etc
- Equipment on site

3. PROGRESS AND ACTIVITIES

- Planned versus actual.
- Activities completed or milestones.
- Technical issues
- Milestones achieved with photos

4. QUALITY

- Quality control and Quality assurance - Summary

5. DRAWINGS

- Drawing issued.
- Drawing issues

6. DELAYS – SUPPORTED VIA DAILY DIARIES

-

7. Commercial / Financial

-

8. General

-

3.3 SCOPE

3.3.1 Scope of Works

The work entails the supply, fabrication, and installation of a 250nb Steel 6mm rubber lined pipeline from Ext 8 To DSF. This scope includes the Piperack modifications where required and removal or movement of pipes to make space on existing pipe racks.

The contractor will be required to verify the dimension of the design or area on the Piperack before ordering, fabrication and installation.

The pipeline route is indicated below.



This work entails the supply of all tools, equipment, labour management and supervision, craneage, transport, parts, consumables, etc to complete the work. This includes all deliveries and offloading at Foskor site.

Note - Foskor pays for material on site, work executed on site

Specifications

All Flanges to be as per Sans 1123 1000/3

Comply to Foskor Engineering specification G014 and GS011

Comply to Foskor pipe drawings for standard pipe sizes and lengths as far as possible.

Waste management

All pipes and other steel, products to be disposed off as per Foskor waste procedures

The work entails the following.

Pipeline tie of from Ext 8 tailings to Pipe bridge

- Supply and install Piperack access platform at tie off point next to Ext 8 Tailings plant.
- Install Sweep tee with enlargement to 250nb – Epoxy s per FOSKOR standards.
- Supply and install 2 * 250nb valves.
- Supply and install 2 * 200nb valves on exiting pipeline to Ext conditioners.
- Supply and install pipe support brackets and saddles as indicted by Engineer.
- Remove old pipes as indicted.
- Install make up pieces - Measure during construction, make up, rubber line or epoxy as per FOSKOR standard and install.
- Supply and fabricate standard bends.
- Clean marsh area of spillages and open up existing pipe racks. Stockpile spillage material on a heap as indicated withing 300m.
- Supply installs precast sleepers next to exiting Piperack for the installation of the 2 new 250nb pipelines.
- Supply and Install pipeline on or next to existing Piperack up the pipe bridge.
- Remove one pipeline from the pipe bridge and install the 2 new pipelines as indicated.
- Install Dump valves on indicated points. Fabricate pipeline where required. Install dump valves at every 75m and as indicted by the Engineer with dump hose (Similar to existing used by Flotation) installed where required.
- Send existing FOSKOR pipelines for rubber lining and installation after removal from FOSKOR pipe racks.

Pipe bridge to Milling Sump pump 152, 153

- Supply and install pipe support brackets and saddles as indicted by Engineer.
- Supply and install dump valves. Fabricate pipeline where required.
- Supply, fabricate and install pipeline as indicted.
- Remove old pipes and take to the FOSKOR salvage yard or store at designated place indicated on the plant.
- Install make up pieces - Measure during construction, make up, rubber line or epoxy as per FOSKOR standards and install.
- Install dump valves at every 75m and as indicted by the Engineer.

As Built Drawings

- As built Drawings needs to be compiled from the tie of point at Ext 8 tailings until the pipe outlet at Milling sump P152, 153.
- The Drawings will focus on the pipe route and the basic structure the support the pipeline.
- The supporting structure with basic dimensions with detail focus on the pipeline and direct pipe support.
- The drawings need to be delivered to FOSKOR in Cad format and will be reviewed and accepted by FOSKOR.
- This includes a general arrangement drawing indicating pipe route and piping schedule.

4. PROJECT URGENCY

Project urgency is defined below:

This is a very urgent project and schedule compliance is critical.

5. DELIVERY OF MATERIALS AND EQUIPMENT

It is the responsibility of the Contractor to take delivery, off-load, store, and move into their permanent position all equipment and materials covered under this Scope. The Contractor shall, at his own expense, be responsible for the delivery to the Site of imported plant and equipment, materials and Contractor's plant and equipment in connection with the execution of the works, including but not limited to securing of permits and customs clearances, and payment of handling costs, storage costs, releasing costs, transportation costs, and duties, taxes, imposts, excise and charges of any kind that may be imposed by the South African Government, or any of its agencies and political subdivisions relating to the supply and delivery to the site of the imported plant and equipment, materials and Contractor's plant and equipment.

TAKE NOTE - Foskor pays for material delivered to Foskor site only!

NB: The contractor/ consultant must clearly state in his tender submission if there is an exclusion on the Foskor scope (As per the site meeting procurement scope and site meeting minutes) Failure to state the exclusion will mean that the full Foskor scope is still applicable.

Lay down areas are as indicated on the drawings

6. BATTERY LIMITS – INCLUSIONS AND EXCLUSIONS

6.1 TABLE OF 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?													
FF = FOSKOR, FREE OF CHARGE				FC = FOSKOR, AT COST TO CONTRACTOR				C = CONTRACTOR				N/A = NOT APPLICABLE	
1. Sanitary		2. Transport		3. Quality		4. Security		5. Lifting and Rigging		6. Medicals		7. Communication devices	
1.1 Water on site and toilet facilities / janitorial services	C	2.1 Labour	C	3.1 Plan, Management, QA, QC	C	4.1 Site Security	C	5.1 All rigging equipment (Slings, Chain blocks, turners, etc	C	8.1 Entry and Exit	C	7.1 All communication devices like laptops, computers, networks, radios, cellphones, etc	C
1.2 Potable connection point	C	2.2 Materials	C	3.2 All quality test Civil, Paint, Mechanical, etc	C	4.2 Foskor ID Card	C	5.2 Rigger	C	8.2 First aid box at place of work	C		
1.3 Connection to construction water supply	C	2.3 Equipment	C	3.3 Sampling and laboratory testing	C	4.3 Personal Items	C	5.3 Mobile cranes	C				
1.4 Change rooms	C	2.4 All TMMS	C										
8. PPE		9. Surveying		10. Safety File		11. Training & Authorizations		12. Site Establishment		13. Waste management		14. Painting	
8.1 Supply, Issue, inspect and manage	C	9.1 Site Surveys	C	10.1 Foskor will issue template	FF	11.1 All Required Training	C	13.1 Site office/s with suitable facilities for daily “Green Area” meetings, and lunch area	C	13.1 Transport all on site to waste to Foskor designated waste sites	C	14.1 All Equipment and tools paint, labour, etc	C
				10.2 Ensure file conform/ populate to Foskor standards	C	11.2 Authorisation - As per Foskor COP	FF	13.2 Site establishment space	FF				
15. Fuel		16. Mechanical		17. Labour		18. Compressed air		19. Scaffolding		20. Tools & Equipment		21. Training	
15.1 Fuel Supply	C			17.1 All labour as per Scope of Work to execute task including management	C	18.1 Sandblasting or flash blast	C	19.1 Scaffolding Supply & Erect	FF	20.1 All Portable Electrical Equipment	C	21.1 All required training and training manuals as required to ensure that Foskor can train its workforce and operate the plant / equipment safely	C
15.2 Fuel storage	C					18.2 Compressor	C	19.2 Scaffolds be managed by the Contractor with proper documentation (request, Erected, Job completed, Demolished, etc)	C	20.2 Hot Work Equip as per Foskor COP - Welding Machines, Gas Cutting, Grinding, Gauging, etc	C		
15.3 Fuel fire protection	C					18.3 Air for power tools - If available	C	19.3 Cherry Picker’s – only if available by pre-booking	F F	20.3 Tools as required to execute task	C	21.2 All manuals and related documents to be supplied to project Eng. and Foskor Drawing office for safe keeping	C
15.4 Refuelling	C							19.4 Cherry Picker’s Driver– Trained and authorized driver	C				
22. Certificates		23. Consumables		24. Storage and inventory control		25. Electrical							
22.1 Supply All regulatory and other certificates as required	C	23.1 Welding rods	C	24.1 Protective coverings/tarpaulins	C	25.1 Generators	C	25.4 Temporary lighting	C	25.7 Electric panel + distributing wiring	C		
		23.2 Bolts & Nuts, etc.	C	24.2 Storage area and inventory control	C	25.2 Electrical Extensions	C	25.5 Power for tools on site from existing Foskor electrical supply point (Welding plugs and 220 v plugs	C	25.5 Electrical connection point	F		
		23.3 All other required Consumables to execute the plant				25.3 COC Site Establishment	C	25.6 Connection to Electrical supply	C	25.9 Electrical and Instrumentation Installation	C		

****NOTE**

Foskor has made provision for the supply of scaffolding free of charge depending on the size and nature of the works. It is expected that arrangements will be communicated to the appointed Scaffolding contractor at least 3 days before requirement. Proof of request and arrangements and actual scaffolding installation for Scaffolding to be provided to Foskor on request.

It should be noted that FOSKOR has an existing appointed and accredited scaffolding supplier.

7. AS BUILT DRAWINGS

As built drawing requirement is defined below:

As built drawing are required at completion.

Note! – All drawings to be delivered in AutoCAD electronic format. All drawings to be detail engineering drawings.

8. QUALITY

- i. The service provider 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.
- ii. The service provider shall during all phases of construction comply with the Foskor approved Quality Assurance Plan.
- iii. The service provider shall be responsible for all the resources required for executing the Quality Management System including but not limited to, developing the Quality Assurance Plan and performing the Quality Control measures to ensure that the deliverables comply with the specifications and standards mentioned in the scope of work.
- iv. Any change requests / additional work resulting due to inadequate quality management system will be for the account of the service provider.
- v. Foskor might appoint a third party for Quality Control Inspections.
- vi. The Service provider will have to provide an approved quality system for all work executed.
- vii. This will include the following but is not limited to:
 - a. Quality plan
 - b. Quality compliance – Performance and reports
 - c. Quantity surveying
 - d. Quality Assurance
 - e. Quality Authorization matrix – part of the Quality plan
 - f. Quality control

- g. 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.
 - h. Includes all test work, laboratories, Filing, etc.
 - i. Survey and survey verifications
 - j. Construction versus design - Any Deviations from the approved “Construction Drawings”
 - k. Quality communication – What needs to be reported to whom and at what frequency.
- viii. FOSKOR envisage a complete quality System driven by the Service provider and this system/plan will be approved by FOSKOR and the appointed designer (if applicable) before construction/fabrication will be started.
- ix. 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 service provider's account.
- x. FOSKOR may appoint a third party to measure and control FOSKOR's interest in the terms of quality in this contract and the service provider is expected to work in conjunction with this company.
- xi. Hold points will be discussed and finalized with the successful service provider 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 service provider will have to submit proof of an experienced quality assurer or relevant qualifications. IF the service provider does not have this it will be required that this service be hired in by the service provider at his cost.

- i. State any specific hold points that are not negotiable here.
- ii. State any other applicable quality that is not in the “Parameters” section.

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

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

***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

QUALITY FILE INDEX

The quality file index listed below will be the minimum requirement.

This file must be kept up to date for the duration of the project and will be handed to the Foskor project Engineer on completion of the project.

QUALITY FILE INDEX

	QUALITY FILE INDEX <small>FOSKOR: TSS - PROJECTS</small>	Doc. No.:	FSK-P-GEN-IX-001
		Rev. No.:	00
		Date:	12 - July - 2019

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9. PROJECT DELIVERABLES

9.1 THE DELIVERABLES FOR THIS PROJECT INCLUDE:

- Constructed civil works s per issued for construction drawings.
- Hand over certificate

- Quality file
- Safety file

9.2 TRANSMITTAL OF DOCUMENTS AND MANUALS

Documents and Manuals to be submitted in the flowing formats:

Type of Document	Hard Copy	Electronic Format
Manuals		
Drawings	X	X
Reports		
Data Books		

Hard Copy: Book or binding arch file format and must be durable and of high quality.

Soft Copy: Manuals, Reports and Data Books – Word, Excel, PDF, etc.

Storage – Compact Disk or Data traveller

Language: English

9.3 PROJECT COMPLETION

On project completion, the contractor will issue Foskop with a Handover certificate.

The handover certificate will be accompanied by the following documents:

- Installed pipeline
- As built Drawings
- Quality File
- Safety File
- Final report
- Hand over certificate

10. DOCUMENTS / DRAWINGS ISSUED BY FOSKOR

Drawing or Document No	Title	Revision
None		
Note	Please read your Scope of Work	

11. ON-SITE SUPERVISION REQUIREMENT

- A Foskop work permit before commencement of site work.
- For shift work a 2.9.2 legal appointee will be on site full time
- A 2.6.1 appointed site manager for overall site management
- Appointed SHE Rep for the entire duration of site work.

12. TENDER DELIVERABLES

The deliverables will include: -

- Complete Foskop pricing schedule (BOQ)
- Preliminary Project Schedule
- Preliminary method statement to execute the site work.
- 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.

13. SAFETY

Service provider to refer to the full and updated Foskop COP's available:

- i. The service provider and sub-service providers need to always comply with the Mine Health and Safety act. All Foskop COP's Policies and procedures need to be adhered to.
- ii. A service provider 2.9.2 to be permanently on-site.
- iii. Medical, Induction, Foskop ID Card, etc. is approximately R800 per person. Exit medicals need to be done on termination of the contract.
- iv. The successful tenderer will be required to compile a Foskop Work permit and at least 2 weeks should be allocated for this. The service provider 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.
- v. All vehicles and cranes as well as other TMM's to be inspected before entering Foskop Premises.
- vi. All person competencies to be verified before being allowed to work on Foskop premises for a specific task.
- vii. The service provider must compile a Safety File as per Foskop standard for all service providers and sub-service providers.
- viii. Site access will need to be controlled and all persons must receive site-specific induction before entering the site.
- ix. Conduct inspections as per Foskop Safety System. Analyse data and trends and recommend preventative measures where required.
- x. Ensure all authorizations are in place as per the Foskop Safety System. Arrangement with Foskop training to be done by the service provider to ensure that authorization and training are conducted. Arrange timeously.
- xi. Ensure all workers competencies are available and have been validated.
- xii. Ensure proper security, signboards, fencing, and barricading is in place on-site where applicable.
- xiii. The service provider shall in general comply with the FOSKOR General Engineering Specifications, COP's, latest revisions, and all relevant regulations.
- xiv. The service provider must complete a Baseline Risk Assessment (COP 01) before a work permit can be issued for the installation.

- xv. All service providers not in possession of a valid Foskop ID card must complete the Foskop induction course and must undergo a medical examination at the Foskop clinic on the service provider's account.
- xvi. The service provider shall be responsible for coordinating and integrating his schedule and responsibilities with other FOSKOR appointed contract manager on-site for this Scope of Work.
- xvii. All personnel operating mobile equipment including LDV's must have a Foskop driver's permit.
- xviii. An open Pit Licence is required for driving in the mining areas.
- xix. All the required PPE and Safety Equipment are for the service provider's account.
- xx. All service providers must ensure that:
 - a. Their workers are issued with the correct personal protective equipment free of charge.
 - b. That the workers wear the PPE per the project area's requirements or as given by the service provider Supervisor.
 - c. Training is provided in the correct use of PPE to workers.
 - d. Daily inspections are done on PPE.
 - e. The registers will be complete at least monthly on findings on PPE. (All PPE must be kept in good condition)
- xxi. All providers of services need to be informed of the following minimum training applies to all service providers (irrespective of the tasks or scope of work) that will enter the Foskop Phalaborwa site with effect from 1 April 2014. This training is not presented by the Foskop Training section and service providers must ensure that the training is sourced through accredited external training companies:
 - a. Basic health and safety principles
 - b. HIRA
 - c. First Aid Training
- xxii. All other training requirements must be aligned with the baseline risk assessment. Risks identified in the baseline risk assessment will provide guidance on training requirements. A summary of the training must be completed as well as status on required authorization as per Foskop COP's.
- xxiii. Training certificates will be accepted when complying with the following:
 - a. Unit Standard Title
 - b. Learner Full name
 - c. Learner ID number
 - d. Competency achieved
 - e. Date of Assessment
 - f. Assessors signature
 - g. Training provider logo
 - h. Training provider registration number and accreditation number.
 - i. SETA logo

14. LEGISLATIVE REQUIREMENTS – SUMMARY

14.1 MINIMUM LEGISLATIVE REQUIREMENTS:

The successful or appointed service provider shall comply with:

- Water License - 04/B72K/ACGIJ/962 Requirements
- Occupational Health and Safety Act (Act 85 of 1993)
- Mine Health and Safety Acts and regulations (Act 29 of 1996)
- Explosive Acts and Regulations - South Africa
- DWS and the National Water Act.
- Foskor COP's and applicable General SHEQ Requirements
- Foskor Engineering Specifications
- Chamber of Mines / Mine Council SHEQ Requirements (Milestones)
- Atmospheric Emissions Licence - 13/2/AEL-02 Requirements
- The latest revisions of the SANS standardized specifications and Foskor Specifications as applicable at the time of quotation shall apply to this contract.

14.2 SUMMARISED REQUIREMENTS/EXTRACTS FROM FOSKOR COP'S

14.2.1 Before entering and operating a service vehicle (Own vehicle) on Foskor site, the appointed service providers shall:

- i. Ensure that their driver/s have a valid national driver's licence for the specific class of vehicle, have been tested by the Foskor mobile equipment training centre and authorised by a Foskor MHSA (Mines Health and Safety Act) regulation 2.13.1 appointee for the class of vehicle to be used on site. (Contact the Foskor mobile equipment training centre at 015 789 2840 to make an appointment for competence testing and authorisations).
- ii. The appointed service provides shall, before entering and operating a vehicle or trailer on the Foskor premises:
 - a. Obtain permission from the Foskor Safety and Security manager to operate their nominated service vehicle/s or trailers on the Foskor site. (Forms will be provided)
 - b. Obtain a certificate of fitness from the Foskor Light Vehicle maintenance workshop supervisor or appointed Foskor inspector for their 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.
 - c. Submit the above permission and COF at the main security office for the issue of a vehicle access disk.

- iii. Ensure that their service vehicles/trailers have been inspected (Daily) by the Foskor standard (COP 59) to ensure that they are safe and fit for use. (Forms will be provided)
See Foskor COP 59, Trackless Mobile Machinery for details.

14.2.2 Before entering and working on Foskor site the appointed service providers shall ensure that their workmen are:

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

14.2.3 Before entering and working on the Foskor site the appointed service provider shall:

- i. Ensure that their portable electrical equipment have been tested and declared safe for use by the Foskor electrical services workshop.

15. PERMIT TO WORK

Before any on-site work under this contract may commence, the appointed or successful service provider shall obtain a PERMIT TO WORK from Foskor. The following guidelines are provided to assist the appointed service provider in obtaining a PERMIT TO WORK. (See Foskor COP 28 Permit to work and COP 25 Control of Externally Provided Processes, Products and Services (Service provider Control) for details):

- i. The PERMIT TO WORK can be obtained from Safety, and on completion returned to the Legal Administrator, Foskor Safety department.
- ii. Obtain a contract number from the Foskor Procurement or Projects department.
- iii. Appoint a subordinate manager under Regulation 2.6.1 and an on-site supervisor under Regulation 2.9.2 of the Mines Health and Safety Act.

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 the contract has been awarded.

Attend an hour-long legal exam briefing any Thursday between 08:00 and 09:00 at the Security training hall.

Write legal examination any Friday between 07:30 and 10:30 at the Security training hall. (Please book)

- iv. Appoint an on-site SHE-Rep under section 29(1) of the MHSA to assist Regulation 2.6.1 and 2.9.2 on the daily on-site management of health, safety and environmental issues.

The designated SHE Rep must have the ability to read, write and express him/herself.

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 booking on 015 789 2531

A pre-requisite for attending the SHE-Rep training course is successful completion of Basic Health and Safety Principles and HIRA training.

See FOSKOR's COP 5 Health and Safety Representatives for details.

- v. Provide a name list, including ID numbers, residential and postal addresses, and telephone numbers of all of the appointed service providers' on-site employees.
- vi. All the appointed service providers' 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. Please note:
All NEW- and employees LEAVING the service of the appointed service provider must undergo a full entry or exit medical examination.
Women who are pregnant or suspect that they may be pregnant must notify the examining medical practitioner.
- vii. The appointed service providers designated on-site drivers shall receive competence testing and authorisation to operate vehicles on FOSKOR site.
- viii. All the appointed service providers' employees shall receive/have received the following training:
 - a. First Aid Level 1 (Provide own training)
 - b. Working at heights (Provide own training)
 - c. Basic Health & Safety Principles (Provide own training)
 - d. HIRA (Provide own training)
 - e. Basic Firefighting. (Provide own- or receive FOSKOR training, contact 015 789 2531 for bookings)
 - f. Lock-out. (Provide own or receive FOSKOR training, contact 015 789 2531 for bookings)

All training not provided by FOSKOR must be verified by the FOSKOR training superintendent Mr Johan Fouche. Please contact him at 015 7789 2525 to make an appointment or email proof of training and certificates to johanfo@foskor.co.za to confirm compliance before requesting his approval on the PERMIT TO WORK.
- ix. All the appointed service providers' on-site employees shall receive the basic FOSKOR site induction training at the FOSKOR Security office.
- x. All the appointed service providers' on-site employees shall receive site-specific induction training provided by the FOSKOR area Regulation 2.6.1 appointee/s.
- xi. A BRA (Baseline Risk Assessment) shall be completed for ALL "typical" tasks that will be completed under this contract. The BRA to be approved by the responsible FOSKOR MSHA 2.13.1 appointee and signed by all the service providers' employees. Make use of FOSKOR's BRA document, Annexure 1.2, contained in COP 1, Risk and Opportunities Management (Available on request)
- xii. Attach a detailed SCOPE OF WORK describing the required task and -outcome of this contract.
- xiii. All FOSKOR's appointed MSHA Regulation 2.9.2, 2.6.1, 2.13.1 and 3.1. a manager must undersign/approve the PERMIT TO WORK.
- xiv. Registration and proof of payment under the Compensation for Occupational Injuries and Diseases Act, no. 130 of 1993. The registration number must be provided.

- xv. SARS issued a tax clearance certificate.
- xvi. All relevant documentation and/or evidence of compliance must be attached to the PERMIT TO WORK.
- xvii. Upon successful completion and approval of the PERMIT TO WORK the Security department will issue the appointed service providers' employees with access ID cards.
- xviii. Any other documents, certificates or records as requested by a Foskor official deemed necessary to ensure that all safety, legislative and administrative requirements have been met must be attached to the PERMIT TO WORK.
- xix. The appointed service provider must allow at least three to ten working days to complete all the PERMIT TO WORK requirements.

16. SAFETY FILE

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

Before any work may commence, the appointed service provider must IN CONJUNCTION WITH THE FOSKOR SAFETY DEPARTMENT, compile a SAFETY FILE specifically for THIS contract. (Contact the relevant area responsible Safety Representative as indicated by Foskor at the Kick-off meeting.

The SAFETY FILE must always be available for inspection by a Foskor official.

16.1 FOSKOR SAFETY FILE INDEX - TYPICAL

Template SHE FILE INDEX: - TYPICAL

<u>ISO clause / Description of item</u>	<u>File divider</u>
1. Integrated Management System. Clause 5.1 & 5.2	1
2. Policies Clause 5.2: OH&S Policies	2
3. COP 1: FOSKOR risk management Clause 6.1.2.1 & 6.1.2.2: Hazard identification, risk assessment and determining controls.	3
4. COP 88: Objectives, targets and management programmes Clause 6.2: Objectives and programs	4
5. COP 2: Compliance obligations and appointments COP 5: Health and safety representatives, Clause 5.3: Legal and other requirements Clause 5.3 / 7.1: Resources, roles, responsibility, accountability and authority Clause 6.1.3: compliance obligations/ legal and other requirements	5

6. COP 15: SHERQ Competency and awareness training Clause 7.2 / 7.3: Competence, training and awareness	6
7. COP 17: Mobile, technical and process training Clause 7.2 / 7.3: Competence, training and awareness	7
8. COP 6: SHERQ Committees COP 7: Communication Clause 7.4: Communication, participation, and consultation	8
9. OCCUPATIONAL HYGIENE COP 42: Lighting: natural and artificial. COP 43: MCOP Occupational health programme on thermal stress COP 44: Sanitation plant hygiene amenities COP 45: MCOP occupational health program on personal Exposure to Air borne Pollutants. COP 64: Ergonomics COP 86: MCOP for Occupation Health Program for noise Clause 8.1.2 Eliminating hazards and reducing OH&S risks	9
10. COP 49: Waste management COP 58: Hazardous chemical substances and control Hazchem and waste management Clause 8.1.2 Eliminating hazards and reducing OH&S risks	10
11. COP 53: Lock out system and usage. Clause 8.1.1 General Clause 8.1.2 Eliminating hazards and reducing OH&S risks 11	
12. COP 55: Stair's walkways handrails and Ladders Clause 8.1 Operational planning and control, Clause 8.1.2 Eliminating hazards and reducing OH&S Risk 12	
13. COP 56: Lifting machinery and lifting Tackle. Clause 8.1 Operational planning and control, Clause 8.1.2 Eliminating hazards and reducing OH&S Risk 13	
14. COP 57: Boilers and vessels under pressure work forms Clause 8.1 Operational planning and control, Clause 8.1.2 Eliminating hazards and reducing OH&S Risk 14	
15. COP 59: MCOP for the operation of TMM's Clause 8.1 Operational planning and control, Clause 8.1.2 Eliminating hazards and reducing OH&S Risk 15	

16. COP 60: Portable electrical equipment checks and registers
Clause 8.1 Operational planning and control,
Clause 8.1.2 Eliminating hazards and reducing OH&S Risk
16
17. COP 61: Earth leakage Relays and checks
Clause 8.1 Operational planning and control,
Clause 8.1.2 Eliminating hazards and reducing OH&S Risk
17
18. COP 62: General Electric installations and machinery in hazardous locations
Clause 8.1 Operational planning and control,
Clause 8.1.2 Eliminating hazards and reducing OH&S Risk
18
19. COP 63: Hand tools
Clause 8.1 Operational planning and control,
Clause 8.1.2 Eliminating hazards and reducing OH&S Risk
19
20. COP 65: Personal Protective Equipment
COP 67: MCOP Women in mining PPE
Clause 8.1 Operational planning and control
Clause 8.1.2 Eliminating hazards and reducing OH&S Risk
20
21. COP 69: Maintenance of fire equipment;
Clause 8.1 Emergency preparedness and response,
Clause 8.1.2 Eliminating hazards and reducing OH&S
21
22. COP 72: Firefighting emergency drill and instructions
COP 74 Emergency preparedness and response
Clause 8.1 Operational planning and control,
Clause 8.2 Emergency Preparedness and response 22
23. COP 93: MCOP for the safe use of conveyors installation for the transportation of minerals,
material or personnel
Clause 8.1 Operational planning and control,
Clause 8.1.2 Eliminating hazards and reducing OH&S Risk 23
24. COP 94: Hot work
Clause 8.1 Operational planning and control,
Clause 8.1.2 Eliminating hazards and reducing OH&S Risk
24
25. COP 95: Confined space entry

Clause 8.1 Operational planning and control, Clause 8.1.2 Eliminating hazards and reducing OH&S Risk	25
26. COP 96: Working on Heights Clause 8.1 Operational planning and control Clause 8.1.2 Eliminating hazards and reducing OH&S Risk	26
27. COP 97: Erection and use of scaffolding Clause 8.1 Operational planning and control, Clause 8.1.2 Eliminating hazards and reducing OH&S Risk	27
28. COP 98: Water safety Clause 8.1 Operational planning and control, Clause 8.1.2 Eliminating hazards and reducing OH&S Risk	28
29. COP 101: MCOP: The right to refuse dangerous work and withdraw from dangerous workplace. Clause 8.1 Operational planning and control Clause 6.1: Actions to address risks and opportunities/Hazard identification, risk assessment and determining controls. Clause 8.1.2 Eliminating hazards and reducing OH&S Risk	29
30. COP 102: MCOP: Risk based emergency care on mine Clause 8.1 Operational planning and control Clause 8.2 Emergency preparedness and response	30
31. COP 103: Use of mobile devices on the mine premises Clause 6.1: Actions to address risks and opportunities/Hazard identification, risk assessment and determining controls. Clause 8.1 Operational planning and control Clause 8.2 Emergency preparedness and response	31
32. COP 22: SHEQ Inspection Clause 8.1 Operational planning and control Clause 8.2 Emergency preparedness and response	32
33. COP 23: Internal and external audit. Clause 9.2 Internal audit Clause 9.2.1 general and 9.2.2 internal audit programme.	33

Notes:

1. If a COP is not applicable to your section, please complete and attach the “Not Applicable” form in the space of the COP.

2. Always keep your file neat and clean.
3. A Foskop Representative may add or remove any other Foskop safety, health, quality and environmental policies and/or procedures deemed applicable.
4. If a COP is not applicable to this contract/project, please complete and attach the "Not applicable" form in the space of the COP.

16.2 TYPICAL CONTENTS OF SAFETY FILE:

- i. Title and index cover page
- ii. A copy of the PERMIT TO WORK.
- iii. A copy of the MSHA Regulation 2.6.1 and -2.9.2 and SHE Rep appointment letters.
- iv. A copy of Foskop COP 25, Service provider control.
- v. Baseline 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.
- vi. Copies of critical task descriptions and standard operating/maintenance procedures.
- vii. Copies of the appointed service providers safety, health, environmental, HIV and AIDS, smoking and waste management policies.
- viii. Training records of all on-site employees.
- ix. Employee records of actual time worked (Normal and overtime).
- x. Copy of on-site induction training.
- xi. Records of inspections of TMM (Trackless Mobile Machinery) and trailers. See Foskop COP 59, Trackless Mobile Machinery for details.
- xii. Records of issues and inspections of PPE (Personal Protective Equipment) and safety equipment. See Foskop COP 65, Personal Protection Equipment for details.
- xiii. Records of issues and inspections of PEE (Portable Electrical Equipment). See Foskop COP 60, Portable electrical Equipment for details.
- xiv. Records of issues and inspections of tools and equipment. See Foskop COP 63, hand tools for details.
- xv. Records of daily, weekly and monthly 2.6.1 / SHE Rep safety inspections. See Foskop COP 22, SHE Inspections for details.
- xvi. Records of daily green-area and safety talks. See Foskop COP 7, Communication for details.
- xvii. 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:

The bidder / Service provider can obtain updated Foskop COP's and Engineering Specification on request.

16.3 REMINDER OF RISK IDENTIFICATION – LIFE SAVING RULES

- *Risk Assessments and clearance certificates*
- *Lifting operations*
- *Working at heights*
- *Confined space entry*
- *Positive energy Isolation and lockout*
- *Moving Machinery*
- *Personal protective equipment*

Risk assessment is applicable to all jobs and training applies to all that will do physical work!

17. PARAMETERS

17.1 DESIGN PARAMETERS

All plant and equipment will be designed to:

- Operate satisfactorily under atmospheric, ambient, and other conditions present at the site location.
- Ensure interchangeability of units and/or sub-parts throughout the plant to reduce spare holding requirements – take old plant equipment into account.
- Ensure reliability and maintainability. 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.

17.2 SPECIFICATIONS, CODES, STANDARDS AND REGULATIONS

The latest edition of the South African National Standards in effect at the date of projects design shall establish the minimum requirements for design, materials, and construction. This should be referenced with the Foskor General Engineering specifications and requirements of the Foskor SHERQ system (COP's). No work shall be contemplated which is in breach of any legislation in South Africa – Typically but not limited to:

- Water License - 04/B72K/ACGIJ/962 Requirements
- Occupational Health and Safety Act (Act 85 of 1993)
- Mine Health and Safety Acts and regulations (Act 29 of 1996)
- Explosive Acts and Regulations - South Africa
- DWS and the National Water Act.
- Foskor COP's and applicable General SHEQ Requirements
- Foskor Engineering Specifications

- Chamber of Mines / Mine Council SHEQ Requirements (Milestones)
- Atmospheric Emissions Licence - 13/2/AEL-02 Requirements
- The latest revisions of the SANS standardized specifications and Foskor Specifications as applicable at the time of quotation shall apply to this contract.

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

The stormwater for the area at the South Pit is currently being assessed by the design engineers and will be incorporated in the final design. The storm water will be addressed in a future scope for construction.

17.3 SITE GEOGRAPHY

The plant is located at Phalaborwa, Limpopo, South Africa























17.4 AMBIENT CONDITIONS

- Ambient temperature

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

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

17.5 FOSKOR GENERAL ENGINEERING SPECIFICATIONS (SHOULD BE CONSULTED BEFORE 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

Service provider /Contractor /Supplier - Please ensure that you have the latest copy of the specifications before any activity is committed.

17.6 SPECIFICATION

ELECTRICAL SPECIFICATIONS		
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

17.7 PROJECT SPECIFIC SPECIFICATION FROM DESIGNER

N/A

18.0 PROJECT MANAGEMENT - CONTRACTOR

- Nominate a single window of communication to Foskor – 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 the 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.

- f) The contractor to provide updated project management plans on progress as defined by the Foskop Project Engineer.
- g) **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 Service provider is responsible for managing the project and this is graphically displayed below indicating where what functions lies. Graphical presentation only covers some basic aspects.

19. PLANNING AND SCHEDULING:

- The Project Section has a planning standard that needs to be adhered to during the execution as per the relevant order placed.
- The Foskop scheduler can be contacted to provide schedule details input and guidelines if needed.
- Schedule must be compiled within one week after kick-off meeting conducted by the Foskop Project Leader
- The Contractor schedule needs to be signed off by contractor 2.6.1 before approval by Foskop.
- The Foskop scheduler will issue the Templates to be used - This template must be adhered to, and no changes should be made.
- Progress Update is needed every once a week a day before the weekly progress meeting or as requested.
- The progress Updates to be submitted to Foskop Scheduler/Planner via email.
- It is the contractor's responsibility to appoint the competent person to manage the contractors schedule which that person will directly communicate with Foskop Scheduler - If the contractor's responsibility to add the cost of a competent person on the project. Commercial action to be taken if the performance in planning is lacking.
- Foskop requires all contractors to use MS Project software which it will be fully implemented latest 01 February 2022.

19.1 Typical aspects to be adhered to:

- It is the subcontractor's responsibility to produce a detailed schedule which tie up to the Foskop standards of requirements.
- The Schedule must not have open ended activity task.
- The schedule must be fully resourced.
- The schedule must not have constraints.
- The calendar must be created and assigned in the schedule. Confirm the templates with the Foskop Scheduler
- It is Foskop responsibility to review the schedule before it's been approved.
- A schedule must be approved by Project Scheduler/Project Manager and Project Engineer.
- The approved baselined schedule must be updated by the contractor to show Planned vs Actual.
- The contractor must show S-Curve which will be constructed from the schedule.
- Project updates must be submitted to the Project Planner/Scheduler for review.

20. LIAISON AND CO-OPERATION WITH OTHERS

- The CONTRACTOR/ SERVICE PROVIDER shall be required to co-operate and liaise with Foskor appointed Project Manager.
- The CONTRACTOR/ SERVICE PROVIDER must note that construction is within an operational plant.
- The CONTRACTOR/ SERVICE PROVIDER may appoint a Foskor approved sub-contractor
- The CONTRACTOR/ SERVICE PROVIDER shall be required to work in conjunction with the Foskor appointed structural-, electrical-, equipment- and instrumentation installation contractor – if applicable.

21. GENERAL CONDITIONS – COMMERCIAL

A. EXTENSIONS, PENALTIES AND RETENTIONS

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

Description	Condition	Duration
Penalties	0.5% per week	Late Delivery after promised completion date
Performance Bond	0% of Contract Value	0 Year after completion
Retention	10 % of Contract value	Release after 3 months
Type of Contract	Fidic Red book	
Tender price validity	3 months	
Escalation	None	None

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

B. AFTER SALES SERVICE OR REQUIREMENTS

- After sales service requirements are listed below:

- **Not applicable**

C. INVOICES DUE DATES

The due dates for claim certificate are the 12th of every month. Invoices are due the latest 17th of every month.

D. MANDATORY DOCUMENTS

MANDATORY DOCUMENTS

	MANDATORY ADMINISTRATIVE DOCUMENT	Required	
		Yes or No	
1	Completed and signed tender document – Tender Invitation	Yes	Foskor document
2	Initialled Scope of Work document	Yes	Foskor document
3	Signed Ethics Policy document	Yes	Foskor document
4	ISO 45001 Introduction	Yes	Foskor document
5	FIDIC Red – will be used	Will be applied	No need to submit
	MANDATORY COMMERCIAL DOCUMENTS		Attach as:
1	Valid SARS Pin	Yes	Annexure 1A
2	Company/Trust or CC registration documents (CIPC)	Yes	Annexure 1 B
3	Directors Identity Document (certified copies)	Yes	Annexure 1 C
4	BBBEE certificate/ or Affidavit for the below R10million revenue p.a. companies	Yes	Annexure 1 D
5	Shareholding Structure (showing all shareholders in the entity)	Yes	Annexure 1 E
6	Shareholder or trust beneficiary information -Id numbers of shareholders or -Registration documents, where a shareholder is also a legal entity/company or trust -Id numbers of the trustees and beneficiaries, where the shareholding is by a Trust	Yes	Annexure 1 F
7	Shareholder Certificates (where not reflected on CIPC documents)	Yes	
8	Letter of Good Standing (COIDA) for companies that render service on Foskor site or deliver on site	Yes	Annexure 1 G

9	Two year's Financial Statements – for bids above R 5 million. The financial statements must not be older than two years. -Provide any additional information if available on credit lines/ accounts that your company has with its owns suppliers to show financial strength or -Bank letter of good standing or support on the project	Yes	Annexure 1 H
10	CIDB Grading per advert	Yes	Annexure 1 I
11	ISO certification for bidder – ideal but not required	No	Annexure 1 K

22. TENDER EVALUATION CRITERIA

- As part of the process to assist with the evaluation of the bidder's proposal/quotation and to make an informed decision in the awarding of this tender, the following information is required.
- The following tender evaluation criteria will be used for adjudicating the Contractor submitted tender.
- Only submitted documents will be used for adjudication purposes.
- Please provide the required documentation as requested in the "Proof/documents to be submitted" column. Please be specific when submitting documents by ensuring that they answer the item specified.
- Please use the annexure number as indicated to identify the proof submitted.
- Failure to submit the relevant documentation as requested in the Evaluation criteria document may lead to a disregard of the submitted tender.
- A Site or verification audit on submitted documents may be conducted based on Foskor's requirement and the tender may be disregarded base on the audit

A. MANDATORY REQUIREMENTS

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

No	Pre-Qualification Requirements	Comments
1	CIDB Rating of at least 5 ME or 5SL Scoring: Yes or No	Provide certificate of CIDB grading

23 EVALUATION CRITERIA (TECHNICAL)

Evaluation Criteria (Technical)				
T- Escape tunnel conveyor 102				
No	Technical Criteria Description	% Contribution	Proof / documents to be submitted	Notes
1	Experience & Team competence -			
a)	<p>The company will have experience in Piping construction works for more than 2 years.</p> <p>Scoring:</p> <ul style="list-style-type: none"> • No Experience = 0% • Company experience 1 year = 50% • Company experience 1.5 year = 75% • Company experience 2 year or more = 100% 	15%	<p>Please provide a order list with values</p> <p>The list to contain the following.</p> <p>Order no, Order description, Brief explanation of what the work entailed, Order value, Reference name and Tel no</p>	<u>Annexure A</u>
b)	<p>Company will have experience for Piping construction projects in a plant or mining environment.</p> <p>Scoring:</p> <ul style="list-style-type: none"> • No Experience = 0% • Company experience not in plant = 50% • Company experience in a plant area = 75% • Company experience in a mining environment = 100% 	15%	<p>Please provide a order list with values</p> <p>The list to contain the following.</p> <p>Order no, Order description, Brief explanation of what the work entailed, Order value, Reference name and Tel</p>	<u>Annexure B</u>
c)	<p>Company organogram indicting management and team compilation</p> <p>Scoring:</p> <ul style="list-style-type: none"> • Organogram not submitted = 0% • Partial organogram or not sufficient = 50% 	15%	<p>Submit organogram indicating management, supervisors and teams for different construction foreseen during construction</p>	<u>Annexure C</u>

Evaluation Criteria (Technical)				
T- Escape tunnel conveyor 102				
No	Technical Criteria Description	% Contribution	Proof / documents to be submitted	Notes
	<ul style="list-style-type: none"> Organogram submitted and accepted = 100% 			
d)	<p>Company has the required assets to execute the supply, fabrication and construction of a pipeline and Piperack.</p> <p>Scoring:</p> <ul style="list-style-type: none"> Company does not have required assets related to relevant pipe work = 0% Partial assets or not sufficient = 50% Company has required assets=100% 	15%	<p>List assets – Provide a asset list on a letter head signed off by the relevant authorised person. The focus is Piping construction equipment and tools, resources The following should be covered (Assets or ability to provide)</p> <ul style="list-style-type: none"> Pipe supply, handling and delivery Pipe Fabrication and pipe rack support – Workshop and relevant equipment Pipe transport to site Cranes Welding and gas cutting equipment. Rubber lining and painting LDV's Lifting and rigging tools 	<u>Annexure D</u>
e)	<p>Provide extracts of Quality documents</p> <p>Scoring:</p> <ul style="list-style-type: none"> No quality document or not accepted = 0% Partial documents = 50% Quality documents provided and accepted=100% 	10%	<p>Give extract of Signed off QCP's and quality documents used during construction with relevant signatures of similar projects</p>	<u>Annexure E</u>
f)	<p>Method statement and pre-liminary schedule</p> <p>Scoring:</p> <ul style="list-style-type: none"> Method and schedule reviewed and not accepted - Not =0% Provided but does not clarify all issues or steps = 50% Provided and accepted= 100% 	20%	<p>Detail method statement linked to scope indicating resources (Competencies, Number off, etc) to execute the job. A timeframe for the job should also be indicted – Relate to pre-liminary submitted schedule. This should properly define how the Project will be executed through all phases. The phases will include the supply and</p>	<u>Annexure G</u>

Evaluation Criteria (Technical)				
T- Escape tunnel conveyor 102				
No	Technical Criteria Description	% Contribution	Proof / documents to be submitted	Notes
			fabrication, The Piperack supports and cleaning activities, Pipeline rubber lining and installation activities, existing Pipe removal.	
g)	<p>Reference letters for work done - previous or current companies.</p> <p>Scoring:</p> <ul style="list-style-type: none"> Reference reviewed and not accepted - Not applicable =0% References Provided but does not all relevant, applicable = 50% Provided and accepted= 100% 	10%	<p>Provide a reference letter taking the following into consideration:</p> <ul style="list-style-type: none"> The letter to be from the client organisation. Sub-contractor reference to be confirmed by client organisation. Pipeline construction - Project / Engineering manager or procurement manager to sign off on reference letter or e mail and contact details of respective contacts or handover/completion certificates sign off by relevant client organisation. Client sign off on pipeline construction can also be accepted 	<u>Annexure H</u>
	Total Technical Score	100.00%		
<p>Note: In order for the bid to be considered the bidder needs to score 70% and above, and comply to all mandatory requirements - This is still dependant on a audit or verification of submitted document that can lead to a bid not being accepted</p>				

24. PRICING SCHEDULE

Description: Ext 8 pipeline to DSF

Specifications shall be deemed to form part of and included in the pricing instructions.

A. PRICING SCHEDULE / SCHEDULE OF QUANTITIES OR BOQ

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

%	=	percent	m ² .pass	=	square metre-pass
h	=	hour	m ³	=	cubic metre
ha	=	hectare	m ³ .km	=	cubic metre-kilometre
kg	=	kilogram	MN	=	meganewton
kℓ	=	kilolitre	MN.m	=	meganewton-metre
km	=	kilometre	MPa	=	megapascal
km-pass	=	kilometre-pass	No.	=	number
kPa	=	kilopascal	Prov sum	=	Provisional sum
kW	=	kilowatt	P C sum	=	Prime Cost sum
ℓ	=	litre	sum	=	lump sum
m	=	metre	t	=	ton (1 000 kg)
mm	=	millimetre	W/day	=	Work day
m ²	=	square metre			

2. No allowance is made for waste.
3. FOSKOR pays for material on site unless special approval has been obtained prior.

Note - All Labour, Transport, Supervision, Admin, Quality, Mobile Cranes, tools, equipment, lifting and rigging and every item are part of this Scope requirement

PRICING SCHEDULE

SCHEDULE OF QUANTITIES

Please read the scope and ensure all is covered in the Pricing schedule in the respective line items

No	Description	Unit of Measure	Qty	Rate	Amount
1	Preliminary and general				
1.1	This includes all aspects like supervisor, management, admin, transport, tool, equipment, consumables to	Lump sum			
2	Site establishment				
2.1	Site establishment cost	Lump sum			
3	PIPELINE Installation				
3.1	Install Access platform as per instruction from Engineer. The access platform to be 2 * 3m with handrails, grating and kickplates. Includes all relevant support steel and bolts and nuts. This will be bolted to the existing pipe structure. This includes the cat ladder for access. All cranes included.	R/kg	1100kg		
3.2	Valve - knife gate 200nb with actuator - ATS BGL Actuators - Supply and install at Tie off point. Complete	Each	2		
3.3	Valve - knife gate 250nb with actuator - ATS BGL Actuators - Supply and install at tie off point. Complete	Each	2		
3.4	Sweep tee with enlargement from 200 to 250nb – Supply and install. Epoxy as per FOSKOR standards – At tie off point. Complete	Each	2		

3.5	Dump valves 150mm Sauders Air actuated - Supply and install as per instruction by Engineer or every 75m Airline and bracket included from vale to control.	Each	35		
3.6	Dump valve stub and flexible hose – Hose length 2m	Each	15		
3.7	Dump valve control Mechanism – Supply and install	Each	20		
3.8	Supply and install air supply line. Galvanised steel 25mm along route indicted. Includes brackets	m	200m		
3.9	9m - Pipes standard lengths steel rubber lined. Supply, fabrication, rubber lined, painted and installation. Include Bolts, nut, washers. Include transport craneage, etc	Each	260		
3.10	6m - Pipes standard lengths steel rubber lined. Supply, fabrication, rubber lined, painted and installation. Include Bolts, nut, washers. Include transport craneage, etc	Each	11		
2.11	3m - Pipes standard lengths steel rubber lined. Supply, fabrication, rubber lined, painted and installation. Include Bolts, nut, washers. Include transport craneage, etc	Each	25		
3.11	2m - Pipes standard lengths steel rubber lined. Supply, fabrication, rubber lined, painted and installation. Include Bolts, nut, washers. Include transport craneage, etc	Each	22		
3.12	1m - Pipes standard lengths steel rubber lined. Supply, fabrication, rubber lined, painted and installation. Include Bolts, nut, washers. Include transport craneage, etc	Each	15		
3.13	< 1m - Pipes standard lengths steel rubber lined. Supply, fabrication, rubber lined, painted and installation. Include Bolts, nut, washers. Include transport craneage, etc	Each	35		
3.14	Dump valve pipe with 150mm stubs flanged - Pipes standard lengths steel rubber lined. Supply, fabrication, rubber lined, painted and installation. Include Bolts, nut, washers. Include transport craneage, etc	Each	35		
3.15	Bends 250nb steel - As per Foskor pipe standards. Flanged and epoxy as per Foskor specification	Each	65		
4	Removal of Existing pipelines				
4.1	Remove old pipeline from pipe bridge as indicated and take to salvage yard or store at indicated place	Each	20		
4.2	Remove old pipeline from pipe bridge to milling (on ground level) as indicated and take to salvage yard or store at indicated place	Each	18		
4.3	Remove old pipeline from milling (on Piperack) as indicated and take to salvage yard or store at indicated place	Each	45		
4.4	Remove old pipeline next to flotation (on Piperack) as indicated and take to salvage yard or store at indicated place	Each	45		
4.5	Foskor exiting pipeline removed from pipe racks 250Nb (Foskor Supply) Send pipeline to rubber liners for installation of new rubber lining as per Foskor Specification - 9m pipe installed	Each	2		
4.6	Foskor exiting pipeline removed from pipe racks 250Nb (Foskor Supply) Send pipeline to rubber liners for installation of new rubber lining as per Foskor Specification -6m pipe installed	Each	2		
4.7	Foskor exiting pipeline removed from pipe racks 250Nb (Foskor Supply) Send pipeline to rubber liners for installation of new rubber lining as per Foskor Specification -3m pipe installed	Each	2		
4.8	Foskor exiting pipeline removed from pipe racks 250Nb (Foskor Supply) Send pipeline to rubber liners for installation of new rubber lining as per Foskor Specification -2m pipe installed	Each	2		
4.9	Foskor exiting pipeline removed from pipe racks 250Nb (Foskor Supply) Send pipeline to rubber liners for installation of new rubber lining as per Foskor Specification -1m pipe installed	Each	2		

5	Additional Pipe support and piperack				
5.1	Trench for draining water next to Ext 8 service water dam	M3	60m3		
5.2	Install perforated pipe 110mm with cloth and gravel/stone to lower ground water. To be installed below existing structure of pipeline support	m	30		
5.3	Clean spillages and expose existing pipeline support structures. Excavate material and place on a heap withing 200m.	M3	400m3		
5.4	Supply, deliver, Install prefabricated sleepers (Concrete blocks) 800mm* 250mm * 300mm. This includes light reinforcing. Includes pipe saddle and pipe fasteners for both pipes	Each	22		
5.5	Steel Pipe support on existing pipe racks along the pipe route. Supply fabricate paint and install as per engineering instruction	R/kg	14000kg		
5.6	Concrete plinths - includes shutters, blinding, etc	R/M3	2m3		
5.7	Reinforcing	R/kg	500kg		
5.8	Chemical ankers M12. Includes drilling, preparations, consumables and installation asper specification	Each	8		
5.9	Chemical ankers M16. Includes drilling, preparations, consumables and installation asper specification	Each	8		
5.10	Blinding – As per SANS Specification	M2	4m2		
5.11	Excavation Soft	M3	2m2		
5.12	Excavation Hard rock	M3	2m3		
5.13	Breaking concrete with reinforcing and clean up	M3	1m3		
6	Drawings - As built				
6.1	Deliver as built drawings in Cad format to the Foskor drawing office	Lump sum			
7	Site De-establishment				
7.1	Site de establishment cost	Lump sum			
8	Other				
8.1	Other - Please Specify				

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

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



Signed with Impression - Chain of Custody



Signature Request

Signature Request ID:	b134c257-fe9d-404c-9906-cd69d6fb45e3	Timestamp:	2023-11-23 13:48:20 GMT
Signee Name:	Gerhard Steenkamp	Sender Name:	Gerhard Steenkamp
Request Type:	WebSigning	Request Status:	WEBVIEWER SIGNED

Original Document

Document Name:	SOW Pipeline construction Nov 23 1.docx	Document Size:	1006.7 KB
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Email Evidence

Signee Email:	gerhards@foskor.co.za	Email Subject:	A document from Gerhard Steenkamp is ready for signature
Email Sent Timestamp:	2023-11-23T13:46:18.497900	Email Opened Timestamp:	Not available in Silent Mode

Web Evidence

Signee IP Address:	41.21.226.206	Request Timestamp:	2023-11-23 13:46:38 GMT
Signee GPS (if shared):	ZA: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/119.0.0.0 Safari/537.36 Edg/119.0.0.0	Terms Accepted Timestamp:	2023-11-23 13:47:03 GMT

Annotations and Modifications

Signature Count:	1	Form Fields Filled Count:	0
Text Annotation Count:	1	Initial All Pages Count:	0
Single Initial Count:	0		

Signing Evidence

Signee Mobile:	+27824960432	Sign Type:	WebSigning
Security Challenge:	NONE	Part of Workflow:	35419de0-4d13-4179-bcbb-74ff97dde32e

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Signature Request

Signature Request ID:	3e05f353-8675-46e4-97b8-d8bc22a9f6cc	Timestamp:	2023-11-24 09:36:15 GMT
Signee Name:	Joseph J. Mathebula	Sender Name:	Gerhard Steenkamp
Request Type:	WebSigning	Request Status:	WEBVIEWER SIGNED

Original Document

Document Name:	SOW Pipeline construction Nov 23 1.docx	Document Size:	1.3 MB
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Email Evidence

Signee Email:	josephjm@foskor.co.za	Email Subject:	A document from Gerhard Steenkamp is ready for signature
Email Sent Timestamp:	2023-11-23T13:46:16.462776	Email Opened Timestamp:	Not available in Silent Mode

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Signee GPS (if shared):	ZA: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/119.0.0.0 Safari/537.36 Edg/119.0.0.0	Terms Accepted Timestamp:	2023-11-24 09:35:50 GMT

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Signature Count:	1	Form Fields Filled Count:	0
Text Annotation Count:	0	Initial All Pages Count:	0
Single Initial Count:	0		

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Security Challenge:	NONE	Part of Workflow:	35419de0-4d13-4179-bcbb-74ff97dde32e

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