

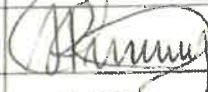







**Scope Work Document**  
**TITLE: INSPECTION AND TESTING**  
**OF CRANES/HOISTS**

**SCOPE DOCUMENT FOR INSPECTION, STATUTORY SERVICING AND  
LOAD TESTING OF LIFTING EQUIPMENT FOR ACID DIVISION**

Tender no:		Contract/Project No-
Revision:	1 <sup>st</sup>	Revised date: 12 Sept 2022

NAME	TITLE	Co. No.	SIGNATURE	DATE
<b>COMPILED - RECOMMENDATION</b>				
Mwandla Sthenjwa	Maintenance Technician			13/09/22
<b>APPROVAL TO PROCEED</b>				
Akhil Kumar Dwivedi	Mechanical Engineer	503700		29/09/2022
Sifiso Majola	Senior Maintenance Manager	15480		29/09/22
Fortune Njobe	Senior Maintenance Manager	13143		30/09/22
Sumaya Khan	Act. SHREQ Manager	503285		30/09/22
Sam Mbuyazi	General Manager	500441		06/10/2022

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### 1. **Background and Present Situation**

The statutory testing of cranes/hoists in the Acid division are done on a regular basis as per the law i.e., inspections and servicing on a quarterly basis and load testing on an annual basis. The idea is to have one set contractor (on a renewable contract) who would undertake all the work at a distributed pre-determined cost. Any extra work that may be necessary following an inspection/service can be undertaken on a separate order. This would provide us with a better and more consistent service from a supplier and in turn allow us to improve our maintenance availability on these items. The contractor will be responsible for the supply of welding consumables as per Foskor requirements in terms of, but not limited to quantities and timing of orders. The scope of supply is limited to all items as specified in Annexure A with BOQ and any additions/deletions from this is effective only after written and signed addendum between the parties is constituted. All pricing of supplied goods shall be as per contract pricing rates as agreed annually

### 2. **Legislation, Standards and Codes of Practice**

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

Number	Title / Description	Revision
	Occupational Health and Safety Act – Act 85 of 1993	
	ISO 9000 – Quality System Series	
	SABS 1200 (All relevant specifications)	

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

### 3. **Foskor Specifications**

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

Number	Title / Description	Revision
	SABS 1200 (All relevant specifications)	



COP 4	Clearance and Work Permits	5
COP 93	Ladders, Stair & Scaffolding	2
COP94	Lifting Equipment and Tackle	0
COP 96	Motorized Equipment	3
COP 99	General Electrical installation	1

It is the responsibility of the Tenderer to be in possession of the latest standards and codes as listed above in the execution of this project.

In the event of contradiction on the specification stated above, the most stringent specification must take precedence.

#### **4. Project Requirements**

As per the detailed scope of work

#### **5. Plant Data**

All work listed in the document will be conducted at

FOSKOR – RICHARDS BAY DIVISION,  
21 JOHN ROSS PARKWAY,  
RICHARDS BAY,  
3900  
SOUTH AFRICA

#### **6. Drawings**

The following drawing and data remain the property of Foskor and shall be returned to Foskor on completion of the work.

Drawing No.	Title / Description	Revision
N/A	N/A	N/A

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

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

## **7. Supplied Services**

### **7.1 Foskor Supplied Services**

Foskor shall be responsible for:

- i Supply a copy of the Foskor Procedure Specifications.
- ii Supply a copy of reference drawings and equipment instruction manuals.
- iii Electricity, Water, and suitable area for site establishment as required by the Contractor.
- iv Assisting in issuing of work clearances and HIRA certificates.
- v Scrap bins where and when required.
- vi Supply of scaffold, carnage, rigging and lifting equipment necessary and required by the Contractor.

### **7.2 Contractor Responsibilities**

The contractor shall be responsible for:

- i The supply his own labour, supervision, specialised manpower and other staff to fulfil the scope of work.
- ii The supply of tools and specialised equipment, consumables, and site establishment to fulfil the scope of work. Foskor will not be held responsible for any losses to the Contractor's equipment.
- iii All temporary lighting necessary to complete the work.
- iv All equipment, tools, personal protective equipment (PPE) etc. that the Contractor will bring to Foskor, will be subjected to review and approval by Foskor and shall conform to Foskor procedures.

## **8. Scope of Work**

1. The scope includes general Inspection of hoist as per the check list below and submits the report to Foskor for any action and includes general repairs as per required speed in line with the checklist below and submit the report to Foskor for any corrective action.
2. Monthly and 3 monthly inspections of overhead cranes and complete and sign Foskor statutory register including the 3 monthly coloring.
3. Yearly statutory inspection with load test and submit the certificate.
4. Supply and replace any spare parts during the inspection or during the breakdown.

5. If required, the Technician must be available after hours, weekend and holidays for call out (This call out will be through "E" no.)
6. For any call out, the technician must report to the relevant supervisor within 2 hours of the callout.
7. For normal inspection or breakdown, the technician must report to the relevant Section supervisor and time sheet must be signed on each job completion.
8. Vendor must not carry out any activities without a valid order no, on callouts Foskor will issue E-Number.
9. The technician should be competent and must be able to work independently and have the responsible ability to do high level of unassisted decision.

The following overhead hoists and Crawls fall under the scope of work of the contract:

Sl. No	NEW FILTRATION – PHOS PLANT	EQUIP. NO	SWL	Make
1	Belt Filter no.1 Hoist	HST 0205	10 000 KG	DEMAG
2	Belt Filter no.2 Hoist	HST 0206	10 000 KG	DEMAG
3	Belt Filter no.3 Hoist	HST 0207	10 000 KG	DEMAG
4	New R&F Attack hoist	HST 0208	10 000 KG	DEMAG
5	Digestion tank hoist	HST 0209	10 000 KG	Condra
6	R&F Workshop Hoist	HST 0210	3 200 KG	Condra
7	Flash cooler vacuum pump Crawl Beam	CRL 0221	5 000 KG	-
<b>OLD FILTRATION – PHOS PLANT</b>				
8	Pan filter No.1 Hoist	HST 0211	7 000 KG	Lasch
9	Pan filter No.2 Hoist	HST 0212	7 000 KG	Condra
10	Belt filter no 4 Hoist	HST 0213	10 000 KG	Demag
11	Old R&F attack hoist	HST 0214	7 500 KG	DEMAG
12	Maturation tank	HST 0215	3 000 KG	Condra
14	Pan filter Vacuum pump Crawl beam	CRL 0222	10 000 KG	-
<b>CONCENTRATION – PHOS PLANT</b>				
13	A STREAM	HST 0001	16 000 KG	Lasch
14	B STREAM	HST 0002	15 000 KG	Kone



15	833 CLARIFIER CRAWL BEAM	HST 833	3 000 KG	-
16	WORKSHOP CRAWL BEAM	CWL 001	2 000 KG	-
<b>SULPHURIC ACID PLANT</b>				
17	POLISHING FILTER		1 000 KG	KITO
18	WORKSHOP		2 000 KG	DEMAG
<b>MAIN WORKSHOP</b>				
19	GARAGE CRANE		5000 KG	DEMAG
20	WORKSHOP CRANE		5000 KG	DEMAG
<b>GRANULATION PLANT</b>				
21	Crawl beam rigger shop	HST0610	2000kg	
22	Crawl beam ammonia pumps	HST0609	750kg	
23	Crawl beam No 2 cage mills	HST0608	2000kg	
24	Crawl beam No 1 cage mills	HST0607	2000kg	
25	Hoist intake granulation	HST0606	2000kg	
26	Hoist PC feed elevator	HST0604	2000kg	
27	Scrubber beams A	HST0613	1000kg	
28	Scrubber beams B	HST0614	1000kg	
29	Screen feed elevator	HST0601	2000kg	
30	Oil store crawl beam	HST0637	1000kg	
31	Crawl beam No 1 conv head	HST0615	5000kg	
32	Crawl beam No 2-conv head	HST0616	5000kg	
33	Crawl beam No 1 Penta fire	HST0611	2000kg	
34	Crawl beam No 1 Mondi fire	HST0617	5000kg	
35	Crawl beam No 1 Rail loading	HST0618	5000kg	
36	Crawl beam No 1 M/H Workshop	HST0619	2000kg	
37	Crawl beam Effluent	HST0600	2000kg	
38	Crawl beam solid feed elevator	HST0602	5000kg	

The following forklifts, overhead hoists, mobile cranes, trucks, and trestles:

Table 1:

Item No	Description	Equipment No
<b>FORKLIFTS</b>		
1	Forklift TMM Hyster 3 Ton	FOR0866

2	Forklift TMM Clark 3 Ton	FOR0862
3	Forklift TMM Hyster 3 Ton	FOR0865
4	Forklift TMM Toyota 4TR/Lining 3 Ton	FOR0864
5	Forklift TMM Toyota Procurement 3 Ton	FOR0863
6	Forklift TMM Isle Toyota Stores 3 Ton	FOR0867
<b>OVERHEAD CRANES</b>		
7	Garage overhead crane 5 Ton	CRN0301
8	Receiving stores overhead crane 5 Ton	CRN0503
9	Warehouse overhead crane 5 Ton	CRN0501
10	Main workshop overhead crane 5 Ton	CRN0201
11	Fabshop overhead crane 5 Ton	CRN0401
12	Main workshop Jlb crane	HST0403
<b>MOBILE CRANES</b>		
13	TMM Crane Grove 7 Ton	CRN0838
14	TMM Crane Grove 30 Ton	CRN0837
15	TMM Crane Grove 90 Ton	CRN0839
<b>CHERRY PICKER</b>		
16	TMM Cherry Picker JLG450AJ	CHE0873
<b>TRUCKS</b>		
17	TMM Truck Nissan UD90	TRK0910
18	TMM Truck Nissan UD80	TRK0907
19	TMM Truck Nissan UD90 Skip truck	TRK0914
<b>TRESTLES</b>		
20	Trestle 312 500kg	MBJ07



21	Trestle 312 500kg	MBJ08
22	Trestle 312 500kg	MBJ09
23	Trestle 312 500kg	MBJ10
24	Trestle 312 500kg	MBJ11
25	Trestle 312 500kg	MBJ12
26	Trestle no 1 – 4 SWL 3 Ton	MBJ01
	Trestle no 2 – 4 SWL 3 Ton	MBJ02
	Trestle no 3 – 4 SWL 3 Ton	MBJ03
	Trestle no 4 – 4 SWL 3 Ton	MBJ04
	Trestle no 5 – 3 SWL 5 Ton	MBJ05
	Trestle no 6 – 3 SWL 5 Ton	MBJ06

Foskor requires a 3 monthly standard service of the overhead cranes after which a quote should be supplied to Foskor procurement for any spare parts replacement or any major repairs.

The following should be inspected during the 3 monthly services and the report to be submitted to the relevant Foskor supervisor/Engineer:

**Three monthly inspections should be done assessing the following:**

Sl. No	Item Description	Acceptance	Remarks
1	General condition of the hoist and Crawl beam structure		
	Condition of Steel wire rope		
2	Rope guide- pressure ring		
	Rope drum		
	Rope wedge		
3	Bottom block		
	Safety catch		
4	Limit switch operation		
5	Hoist brake setting		
6	Creep brake setting		
7	Carriage wheels		

8	Chain		
	Chain collector		
	Chain guide/sprocket		
	Clutch setting		
9	Cross travel motor mounting		
	Cross travel brake setting		
	Cross travel terminal covers		
10	Long travel motor mounting		
	long travel brake setting		
	long travel terminal covers		
	brushes/brush gear		
11	Contractor panel		
	Overloads		
	Timers		
	Panel doors & covers		
12	Control pendant TER		
	General condition of loop systems		
13	Cabin mountings		
Sl. No	Item Description	Acceptance	Remarks
14	Cabin electricals		
	Controllers		
	Emergency button		
	Siren-hooter		
15	Cabin windows		
16	Oil levels		
17	Greasing		
	Buffers		
	Handrails		
18	Condition of storm brakes		
	Down shop power supply		
	Down shop Collectors		
	End stops on gantry		

**A monthly inspection should be done assessing the following:**

Sl. No	Item Description	Acceptance	Remarks
1	Steel wire rope		
2	Bottom block		
3	Safety catch		
4	Hoist brake setting		
5	Long travel brake setting		
6	Condition of loop system		
7	Oil levels		
8	Greasing		

The contractor must conduct service inspections in line with table 2 above. The service inspections are to be conducted twice a year in line with requirements by law. Load testing is to be done once a year as per OSHACT 85 of 1993 and Driven Machinery Regulations requirements.

#### **Breakdowns**

Supply an **hourly labour rate** for attending to break downs and work conducted outside of the monthly and three-monthly inspections.

#### **9. Work Methodology**

The methodology shall contain sufficient detail to assure FOSKOR that the Contractor has a detailed understanding of the work and has the staff and resources to support the Contract/project.

A detailed work methodology shall be submitted **within 3 days of contract award.**

A final work methodology shall be verified and approved by FOSKOR. The contractor is welcome to propose new development that may be of benefit to both FOSKOR and the Contractor. All will be reviewed and discussed before award of contract.

#### **10. Health, Safety and Housekeeping**

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

- The Contractor on entering site, must wear Foskor minimum always required PPE namely safety glasses, hard hat, acid resistant overalls, safety harnesses (on heights), safety boots or steel cap gumboots. Should a Contractor be found on site without the above-mentioned safety clothing, he will be removed from site and will be denied access.
- The Contractor shall ensure all his personnel are Safety Inducted by Foskor before they enter site.
- The Contractor will keep the site clean of scrap and rubbish daily.
- The Contractor must provide a site store for his equipment.
- The contractor must ensure housekeeping is conducted daily and on completion of work.
- The Contractor must remove all their equipment within 48 hours after project completion / closure.

**The following safety violations will lead to immediate dismissal from site.**

- Start-up or Shutdown of plant(s) or equipment without following the required procedures and instructions.
- Working without HIRA's and Clearance in all the identified required tasks
- Working within a height of two meters or higher without using the correct fall arrest
- Working on equipment that requires isolation and lockout, but the isolation and lockout not conducted/done.
- Tampering with electrical switchgear or conducting work in substations whilst not authorised.
- Tampering with and/or making safety devices inoperable.
- Operating or allowing operation of mobile equipment (including locomotives) without a valid license.
- Using/Allowing the defective mobile equipment (including locomotive) to be operated while defective.
- Wilful misconduct that could lead to an incident.
- Allowing equipment/items to leave the plant without being tested for radiation, cleared and permission granted by an authorised official.

**11. Quality Management**

The Contractor is to adhere to Foskor's Quality management system and specifications incorporated in this Tender Document.

**11.1 Quality Assurance**

- i It is a requirement of the contract that the Contractor maintains an effective documented system for the control of product quality. Proof of compliance (performed quality document) with a recognized quality assurance standard, such as ISO 9000, should be submitted with the Contractor's tender.
- ii The Contractor's Quality Assurance Dept. Manager shall be responsible to a senior executive only and not be under the control of persons responsible for production.

- iii The Contractor's Quality Assurance Manager is regarded as the principal link between the Contractor and Foskor in all matters affecting quality.
- iv The Contractor's Quality Manager shall have access to the Contractor's offer document and to all other associated specifications, drawings, and documents necessary for the satisfactory execution of the project.

#### **11.2 Planning**

- i The Contractor's planning system shall demonstrate both recognition of the quality requirements of the project and an organized approach for their achievement, by ensuring that quality requirements are defined and satisfied throughout all phases of the project.
- ii To provide assurance that the above-mentioned activities are performed under controlled conditions. Instructions defining complete processing and inspection requirements must be documented in the Contractor's quality management system shall. These documents shall be made available to Foskor.

#### **11.3 Concessions**

- i A requirement of this scope of work is that all material and tools shall comply with the requirements of the codes and standards as listed above. Failure to satisfy this requirement will result in a disqualification.
- ii However, under certain circumstances, the Contractor may apply, in the form of a documented concession request, to use material and tools, which although failing to meet stipulated requirements, is considered safe. These equipment and tools are subject to the approval of Foskor Limited prior to being utilised in the work.
- iii It is not intended that the concession application process becomes an automatic means of accepting a lower standard of quality. Applications must be fully justified.

#### **11.4 Quality Control**

- i The Contractor shall produce a Quality Control Plan (QCP) it shall include all those activities necessary for the control of quality of work.
- ii At each milestone, Foskor Limited must approve the quality and standard of work being produced. If Foskor is dissatisfied with the quality of work being produced, the Contractor will have to redo work to a standard that is acceptable to Foskor Limited. This will be for the Contractors account. Foskor Limited will not entertain any claims arising from this.



- iii At each hold and witness point all work shall be suspended until the specified inspection has been completed and the QCP updated and signed accordingly by Foskop or its representative.
- iv It shall be the responsibility of the Contractor to give Foskop timely notice of hold and witness points requiring their intervention.
- v A detailed QCP shall be submitted within 3 days of contract award. No work shall commence without the approval of the QCP by Foskop.

**12. Work Breakdown Structure (WBS)**

The Tenderer will be responsible for providing a detailed Contract/ project schedule in form of a bar (Gantt) chart or equivalent to be submitted as a part of the tender.

A cost breakdown of resources (Labour and material) is to be submitted with the tender if a bill of quantities is not provided with the tender documentation.

It is advisable that preliminaries and general are broken down into fixed, time and value related items. This will assist in contract administration. The Tenderer is to note that if they decide on sub-contracting works, no contractual obligation is held between the third company and Foskop (Pty) Ltd.

Foskop's contractual obligation is limited to the Tenderer and the Tenderer is answerable to Foskop in the event of default by the Sub-Contractor.

**13 Documentation and Document Control****13.1 Documentation required after award of contract.**

The following documentation must be provided as soon as possible:

- Pricing detail (as per bill of quantities provided) for activities including materials, site establishment, demobilisation, labour etc.
- Key persons including their previous work experiences.
- Project organisational chart
- Quality Assurance System Compliance
- Quality Control Plan
- Work methodology
- Specific contractor requirements in detail

Failure to submit all the above information at the time of tender may be cause for disqualification of the tender.


**13.2 Documentation required on completion of project.**

On completion of the project, the data book shall be submitted. The data book shall include but not be limited to:

- Detailed as built drawings in ACAD 2000 format or "red-lined" drawings.
- Quality Control Documents i.e., QCP
- All progress reports, concessions, non-conformances
- Inspection procedures
- Inspection reports
- Test procedures and certificates
- Third Party inspection reports
- End of Project Documentation

All the above-mentioned documents to be included in the form of a Data Book.

**Section 2**

	<p align="center"><b>Scope Work Document</b></p> <p align="center"><b>TITLE: INSPECTION AND TESTING OF CRANES/HOISTS</b></p>	
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## **Terms and Conditions - General**

### **1. Confidentiality**

The Tenderer shall not disclose any such information or specification, whether explicit or implied, to any third party without the expressed or written consent from the Client, Foskop (Pty) Ltd.

### **2. Conditions and Undertaking**

The terms set out here are for the purpose of recording the basis of the principles and topics upon which the parties will be required to reach agreement in order to conclude the proposed agreement. It shall not be binding until they are incorporated into a comprehensive formal and final contract agreement signed by both parties.

Tenderers are required to submit full technical and support documentation of their proposed course of action where necessary. The Contractor accepts Foskop's minimum standard in terms of quality and specification.

A contract will be signed by the preferred Contractor, after which they will be governed by the terms and conditions of the contract. If the Tenderer defaults, the Client, Foskop (Pty) Ltd, will have recourse in terms of the conditions as stipulated in the contract.

### **3. Tenderer to include for:**

- 3.1** Supply all relevant manpower, equipment, tools, consumables, etc. required for the performance and total completion of the contract.
- 3.2** As is applicable, prefabrication in contractor's workshop according to the approved drawings and the requirements of the contract; all transportation, loading and unloading, assembly and erection on site according to drawings and specifications.

### **4. Site**

The site is situated within the premises of FOSKOR at Richards Bay. The tenderer is deemed to have viewed the site and has thoroughly acquainted him with the extent, nature and conditions affecting the work to be done before submitting his tender. No claim for extras arising from his failure to observe this clause will be admitted, as it will be deemed that the prevailing conditions have been taken into account when tendering.

**5. Supply**

- FOSKOR shall supply free of charge –
- 5.1 water, electricity, ablution facilities and a suitable area for site establishment, if necessary, unless otherwise stipulated in Section 3.
- 5.2 Any other requirements to be negotiated between the Contractor and FOSKOR

**6. Scaffolding**

- 6.1 FOSKOR will not be held responsible for payment of standing time due to repositioning of scaffolding or poor planning by the Contractor in liaison with the Scaffold Contractor.

**7. Statutory Charges**

The Tenderer shall be responsible for all statutory charges associated with the work.

**8. Safety and Security**

- 8.1 The Tenderer will comply with the requirements of the latest edition and revisions of the Occupational, Health and Safety Act, Act 85 of 1993 together with all FOSKOR Factory rules and Regulations.
- 8.2 Scaffolding erected must comply with the Occupational, Health and Safety Act.
- 8.3 Clearance certificates shall be obtained every day before starting work and shall be signed off on completion of each shift. Certificates are obtainable from the Process Supervisor in the Process Control Room.
- 8.4 The Tenderer shall familiarise himself with and abide by the FOSKOR Factory rules and Regulations relating to security and control of workmen entering and leaving and on site.
- 8.5 The Tenderer is fully responsible for his sub-contractors' compliance with Clauses 5.1 through 5.4.

**9. Material and Workmanship**

- 9.1 All materials and workmanship are to be of the best of their respective kinds and shall be strictly in accordance with the given specifications. Any proposed material substitution is subject to the approval of the FOSKOR Engineer.

**9.2 Guarantee**

The tenderer shall guarantee both material and workmanship on this contract for a minimum period of 12 months.

**9.3 Quality**

All work shall be performed to the appropriate quality and standards and to the satisfaction of the FOSKOR Engineer and the monitoring Supervision Authority, who will be nominated by the FOSKOR Engineer. Any proposed modification to the items under "Scope of Work" must be agreed upon timeously, before commencing with such work.

**10. Variations and Omissions:****10.1 By Foskop**

Should any variations in the scope of the work arise during the period of the contract, the FOSKOR Engineer will give reasonable notice in writing to the Contractor to enable him to assess the cost of such variations accordingly.

The cost of such variations will be transmitted to the FOSKOR Engineer in writing who will either accept or reject the offer. In either case, the FOSKOR Engineer will advise the Contractor in writing as to this decision.

**10.2 By the Contractor**

Should the contractor during the process of work become aware of any variations to the scope of work and/or specifications, which are at variance with the final quantities, and specifications agreed in the order, then he will advise the FOSKOR Engineer in writing of these variations.

Should any variations agreed to by FOSKOR involve an increase/decrease in the contract price, the Contractor will as soon as is reasonably possible advise the FOSKOR Engineer in writing to that effect.

**10.3 Extras**

No claim for extras will be allowed unless the work claimed for is clearly outside the spirit and meaning of the specification and only if the Contractor can produce a written instruction for the same, signed by the FOSKOR Engineer and covered by an official Purchase Order Number.



**11. Housekeeping**

The FOSKOR Engineer will indicate a dumping area or scrap pile for the Contractor's use. The Contractor will maintain the site in a clean and orderly manner as far as is reasonable and practical in carrying out the work. The entire working area must be cleared by the Contractor on completion of work.

**12. Payment**

Payment will be made as per FOSKOR standard terms and conditions.

**13. Penalties**

The Employer may recover a penalty from the Contractor for late completion or delivery for every calendar day between the contract completion or delivery date and the actual completion or delivery date. The penalty shall be 0.1% per calendar day of such portion of the Contract price as is associated with that part of the Contract Works, which cannot, in consequence of the Contractor's failure to complete or deliver timeously, be put in use intended, nor shall the total penalty exceed 5 % of the total contract value.

**14. Inclement weather**

Tenderers shall make do allowances in their tender for inclement weather as no claims whatsoever will be considered for any costs resulting from consequential delays. Inclement weather to be discussed with and agreed upon by FOSKOR Engineer or Inspection Authority.

**15. Terms and Conditions of Contract**

The terms and conditions of this contract shall be governed by the specific terms and conditions as specified in the scope of work and contract documents, all of which form part of the general contract

**16. Responsible Person**

The Contractor shall keep on the job from commencement to completion, during working hours, a competent representative who shall be empowered to receive and act on instructions from the FOSKOR Engineer.

Instructions so delivered shall be regarded as having been given to the Contractor himself. Any change/replacement must have written approval from the FOSKOR Engineer.



**17. Dismissal of Employees**

The Contractor shall, on the request of the FOSKOR Engineer, immediately dismiss from the works any person employed thereon by him who may, in the opinion of the FOSKOR Engineer be incompetent or misconduct himself, and such person shall not be again employed on the works without the FOSKOR Engineer's permission in writing.

**18. Sub-Contractors**

The Contractor is to submit in writing the name of all Sub-Contractors to the Engineer for his approval before entering into agreement with them.

**19. Damage to Persons and Property**

The Contractor shall effect an insurance with an approved company in such a manner as to insure the Employer against any liability, loss, claim or proceedings whatsoever for the injury or damage to persons or property arising out of the execution of the works or due to any action by the Contractor, his employees, servants or sub-contractors, and shall submit the policies in respect of such to FOSKOR for perusal, and also the receipts for the last premiums in respect thereof.

A party affected by Force Majeure must give the other party written notice of the existence of such state of affairs within 3 (three) days of the event taking place or the occurrence thereof.

In the event of either party being unable to fulfil its obligations under this agreement due to Force Majeure for a continuous period of 1 (one) month or more the party shall be entitled to cancel this agreement, by giving written notice of cancellation.

**20. Transfers**

The Contractor shall not cede, assign, or sublet this order or any portion thereof, without the written consent of FOSKOR.


**21. Payment Terms**

10 % of each payment will be held back as retention as per clause 12.

**Section 4**

**Pricing Schedule**

Sl. No	Item Description	UOM	Price/Each	Total
1	Monthly inspection for New Reaction and filtration plant hoist and crawl Beams			
2	Monthly inspection for Old Reaction and filtration plant hoist and crawl Beams			
3	Monthly inspection for Concentration section plant hoist and crawl Beams			
4	Monthly inspection for Sulfuric section plant hoist and crawl Beams			
5	Monthly inspection for Granulation and material handling plants hoist and crawl Beams			
6	3 Monthly inspection for New Reaction and filtration plant hoist and crawl Beams			
7	3 Monthly inspection for Old Reaction and filtration plant hoist and crawl Beams			
8	3 Monthly inspection for Concentration section plant hoist and crawl Beams			
9	3 Monthly inspection for Sulfuric section plant hoist and crawl Beams			
10	3 Monthly inspection for Granulation and material handling plants hoist and crawl Beams			
11	Technician for breakdown work (Normal Hours)	Per Hour		
12	Technician for breakdown work (Over time Hours)	Per Hour		
13	Technician for breakdown work (Double time Hours)	Per Hour		
14	Load test and issue certificates for the entire hoist listed above. Scope includes all the testing materials and water bag.	Per Hoist		
15	Load test and issue certificates for the entire crawler listed above. Scope	Per Hoist		

	<p align="center"><b>Scope Work Document</b></p> <p align="center"><b>TITLE: INSPECTION AND TESTING OF CRANES/HOISTS</b></p>	
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	<p>includes all the testing materials and water bag.</p>			
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**1 Annexure**

**Annexure A – Worklist and BOQ.**

Item No	Description	UOM	Unit Price	Total
1	Monthly Garage overhead crane 5 Ton			
2	Monthly Receiving stores overhead crane 5 Ton			
3	Monthly Warehouse overhead crane 5 Ton			
4	Monthly Main workshop overhead crane 5 Ton			
5	Monthly Fabshop overhead crane 5 Ton			
6	Monthly Main workshop Jib crane			
7	3 Monthly Garage overhead crane 5 Ton			
8	3 Monthly Receiving stores overhead crane 5 Ton			
9	3 Monthly Warehouse overhead crane 5 Ton			
10	3 Monthly Main workshop overhead crane 5 Ton			
11	3 Monthly Fabshop overhead crane 5 Ton			
12	3 Monthly Main workshop Jib crane			
13	Load test and issue annual certificates for the entire forklifts listed on Table 1			
14	Load test and issue annual certificates for the entire overhead cranes listed on Table 1			
15	Load test and issue annual certificate for the entire mobile cranes listed on Table 1. Test includes all the testing material and water bag			
16	Load test and issue annual certificate for the cherry picker listed on Table 1. Test includes all the testing material and water bag			
17	Load test and issue annual certificate for the entire trucks listed on Table 1. Test includes all the testing material and water bag			
18	Load test and issue annual certificate for the entire trestles listed on Table 1. Test includes all the testing material and water bag			
19	Technician for breakdown work (normal hours)	Per hour		
20	Technician for breakdown work (overtime hours)	Per hour		
21	Technician for breakdown work (double time hours)	Per hour		
<b>TOTAL</b>				



## Scope Work Document

### TITLE: INSPECTION AND TESTING OF CRANES/HOISTS

#### INSPECTION AND TESTING OF CRANES/HOISTS

#### TECHNICAL REQUIREMENTS

TECHNICAL REQUIREMENTS				
Evaluation Criteria (Technical)				
TENDER TITLE-INSPECTION AND TESTING OF CRANES/HOISTS				
No.	Technical Criteria Description	% Contribution	Proof/Documents to be submitted	Notes
1	<b>Mandatory - Compliance with Scope of Work Specifications - Weight not to be less than 20%</b>			
a.	Supplier should be Lifting Machine Entity (LME) and approved by chief inspector and having lifting machine inspectors (LMI) which is registered by ECSA on behalf of DOL.  Scoring If no certification = 0%; Certification provided = 20%	20%		
2	<b>Reliability - Supplier reliability to complete the project safely in time, quality and budget - Weight not to be less than 60%</b>			
a)	Suitability of quality control plan in alignment with acceptable standards and best practice for the execution of works.  Scoring If QCP not submitted = 0%; if QCP submitted = 20%	20%	Provide detailed QCP demonstrating control of quality to achieve desired product.	
b)	Suitability of work methodology in line with safe working procedure, inspection procedure, inspection reports, and test procedures and certificates.  Scoring work methodology not submitted = 0%; work methodology submitted = 20%	20%	Provide work methodology.	
c)	Letter in writing to accept and being responsible for the inspection and testing of hoists as per the list and schedule given in the scope of work. Please refer to page 6, 7, and 8.  Scoring If letter in writing not submitted = 0%; letter in writing submitted = 20%	20%	Provide letter in writing.	
3	<b>Competence - Supplier experience &amp; team competence at Foskor Richards Bay - Weight not to be less than 20%</b>			
a)	Supplier previous experience in similar work, environment, magnitude and complexity.  Scoring Experience < 2 years = 0% 2 years ≤ Experience < 5 years = 10% Experience ≥ 5 years = 20%	20%	Provide record of experience demonstrating similarities to previous work.	
Total Technical Score:		100%		
NOTE: Scoring to add to 70 in total to be qualified				